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~~Principles of Amine~~

*Page 5/45*

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~~Sweetening Amine Gas~~

~~Treating Sweetening of Sour~~

~~Gas (Lec048) Amine~~

Sweetening Unit with MDEA

Spartan EP Amine Plant

100gpm *Amine sweetening unit*

*operation* Principles of

Amine Sweetening - sample

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GAS SWEETENING UNIT  
SIMULATION with ASPEN HYSYS  
V9 *gas sweetening 2- amine  
sweetening* **Gas Sweetening  
Process [Group 16]** Amine  
Sweetening Unit Operation -  
sample ~~AMINE GAS SWEETENING  
PROCESS~~ Amine regeneration

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unit, ( ARU ). **THE STRONGEST  
ACID IN THE WORLD**

**Fluoroantimonic acid**

*Distillation Column* **The**

**journey of natural gas H<sub>2</sub>S**

Removal *Debutanizer Column*

*Working Animation, by Ocs*

*([www.octavesim.com](http://www.octavesim.com))*



# Where To Download Amines As Gas Sweetening Agents Aalborg Universitet Capturing CO<sub>2</sub> Mongstad, Norway Hydrogen Sulfide Principles (Safety) Sample

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Acid gas removal part1 video  
23What is SOUR GAS? What  
does SOUR GAS mean? SOUR GAS  
meaning, definition \u0026

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explanation What is LNG?

Turning natural gas into

liquid | Natural Gas Amine

Sweetening Initial Design

1-Gas Processing - Amine

Sweetening Process with

Aspen hysys 7.3 CASE STUDY

OF THE AMINE SOLUTION FLOW

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IN THE GAS SWEETENING UNIT  
using ASPEN HYSYS V9 ~~Lec 16:~~  
~~Sweeting of Natural Gas Lec~~  
21 Amines Introduction to  
natural gas Sweetening

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MOOC Amine - English version  
- Part 2

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Lec 22 Amine Synthesis Amines

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Amines as gas sweetening  
agents Henriette Hansen,  
Master thesis spring 2014  
Page 3 of 74 Abstract CO<sub>2</sub>  
and H<sub>2</sub>S are acid components  
present in natural gas  
recovered from wells in the

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underground. If not removed from the gas they are a cause of corrosion in equipment.

~~Amines as gas sweetening agents Amines as gas sweetening ...~~

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as gas sweetening agents  
Master thesis @inproceedings  
{Hansen2014AminesAG,  
title={Amines as gas  
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thesis}, author={H. Hansen  
and Rudi P. Nielsen},

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~~[PDF] Amines as gas  
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thesis ...~~

Amines As Gas Sweetening  
Agents mixed with water are  
the commonly used sweetening

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Agents. The amine is capable of reacting with both  $\text{CO}_2$  and  $\text{H}_2\text{S}$  to form compounds that is more soluble in the liquid phase than in the gas. In this way undesired acid components is removed from the gas stream. Gas



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sweetening agent for gas  
absorption has been

~~Amines As Gas Sweetening  
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Several alkanolamines have  
been used for acid gas  
removal from natural gas.

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The aim of this article is to provide an overview on application of monoethanolamine (MEA), diethanolamine (DEA), ...

~~(PDF) Selection of Amine in Natural Gas Sweetening~~

# Where To Download Amines As Gas Sweetening Process . . .

Amine gas sweetening is a proven technology that removes H<sub>2</sub>S and CO<sub>2</sub> from natural gas and liquid hydrocarbon streams through absorption and chemical reaction. Each of the amines

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offers distinct advantages  
to specific treating  
problems.

~~Amine Treating | Amine Gas  
Sweetening | CO<sub>2</sub> & H<sub>2</sub>S  
Removal~~

Since MEA is a primary

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amine, it has a high pH which enables MEA solutions to produce a sweetened gas product containing less than 1/4 grain H<sub>2</sub>S per 100 SCF at very low H

~~Selecting Amines for~~

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~~Sweetening Units~~ BR&E

Monoethanolamine (MEA) MEA is a primary amine. It is the oldest solvent used in modern Gas Sweetening plants. Gas sweetening process using MEA is in the public domain.

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Concentration. MEA is used in aqueous solutions with concentrations between 10 and 20 Wt. % MEA. By far the most common concentration is 15 Wt. % MEA.

~~Amine Units | SourGas~~

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The dramatic increase in the use of selective amines for gas sweetening has resulted from the inherent economic benefits including smaller equipment sizes, lower circulation rates, and higher overall amine



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concentration. Selective amines absorb H<sub>2</sub>S in the presence of CO<sub>2</sub>, either from thermodynamic solubility or kinetic effects.

~~Optimization of Amine  
Sweetening Units — BR&E~~

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21 Gas sweetening by amine  
DGA Agent reacts with CO<sub>2</sub>  
and COS to form BHEEU,  
N,N',bis-(hydroxyethoxyethyl  
) urea, via Equation 1 and  
with COS and CS<sub>2</sub> to form  
BHEETU,  
N,N',bis(hydroxyethoxyethyl)

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thiourea, via Equation 2 as shown below:  $2R-NH_2 + (CO_2 \text{ or } COS) \rightarrow (R-NH)_2CO + (H_2O \text{ or } H_2S)$   $2R-NH_2 + (COS \text{ or } CS_2) \rightarrow (R-NH)_2CS + (H_2O \text{ or } H_2S)$  The major chemical by-product in a DGA solution is BHEEU.

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~~(PDF) Gas sweetening process~~

~~| SUBHASISH MITRA |~~

~~Academia.edu~~

Fig. (1). Simple scheme gas  
sweetening process.

Methyldiethanolamine (MDEA)  
is a tertiary amine, which  
like the other amines, is

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used to sweeten natural gas streams. Major advantage over other amine processes: MDEA selectivity for H<sub>2</sub>S in the presence of CO<sub>2</sub>; If the gas is contacted at pressures ranging from 800 to 1000 psig

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~~MDEA advantage in Sweetening  
gas process — RCE~~

A corrosion inhibitor  
composition useful for  
preventing corrosion by  
solvents used in treating  
sour gas streams, comprising

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Agents Aalborg Universitet  
a quaternary pyridine salt,  
a surface-active agent  
and/or a thio compound and  
an effective amount of a  
water soluble nickel  
compound. The composition  
can also contain a  
demulsifier to prevent

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Agents of the resultant  
foaming solution.

~~US4541946A — Corrosion  
inhibitor for amine gas  
sweetening ...~~

MEA is a primary amine,  
which has had widespread use



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as a gas sweetening agent. The process is well proven and can meet pipeline specifications. MEA is a stable compound and, in the absence of other chemicals, suffers no degradation or decomposition at

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temperatures up to its  
normal boiling point.

~~Monoethanolamine—an  
overview | ScienceDirect  
Topics~~

Many different amines are  
used in gas treating:

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Diethanolamine (DEA)

Monoethanolamine (MEA)

Methyldiethanolamine (MDEA)

Diisopropanolamine (DIPA)

Aminoethoxyethanol

(Diglycolamine) (DGA)

~~Amine gas treating~~

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An amine sweetening process was simulated using Aspen Hysys to treat a natural gas (25 MMSCFD, 1.7 mol% H<sub>2</sub>S and 4.13 mol% CO<sub>2</sub>). Amine circulation rate, lean amine temperature, re-boiler

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temperature and amine concentration were chosen as the main input variables to optimize the process total cost using the central composite experimental design ...

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~~A2.docx Correlating the  
additional amine sweetening  
cost ...~~

2) H<sub>2</sub>MDEA® for Acid Gas  
Absorption/Desorption  
process The activated Methyl  
Di-Ethanol Amine technology  
(using MDEA & PIPERAZINE) for

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recovery of Acid Gas from  
gas mixtures was developed  
in the 1970s and it was  
well-known as a low  
energy-consumption process.

~~Gas Sweetening; Absorption  
Desorption Process Using H~~

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~~MDEA~~  
Gas sweetening process is the method removing Hydrogen Sulfides, Carbon Dioxide, and Mercaptans from natural gas to improve its quality and make it suitable for transport and sale. These



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elements are corrosive and toxic in nature and should be removed. Reasons for Gas Sweetening Process. Removal of the contaminants from Gas are required for ...

~~Overview of Gas Sweetening~~

# Where To Download Amines As Gas Sweetening Methods/Processes What Is

...

Monoethanolamine MEA is a primary amine. It is the oldest solvent used in modern Gas Sweetening plants. Gas sweetening process using MEA is in the

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public domain. Figure XI-B.3 is a process flow diagram of a MEA unit.

~~GAS SWEETENING PROCESSES~~  
~~SlideShare~~

Diglycolamine (DGA) is the most widely used amine-

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sweetening agent in Saudi  
Aramco's plants. As with  
other amines such as  
monoethanolamine (MEA),  
diethanolamine (DEA), and  
methyl diethanolamine...

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