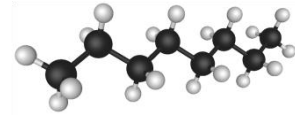




HydraFLASH : Component List



HydraFLASH is a compositional model and the fluid composition should be specified in terms of pure components and/or petroleum fractions or pseudo components to perform thermodynamic calculations.

Hydrocarbon hydrate formers:

Methane
Ethane
Propane
i-Butane
n-Butane
i-Pentane
cyclo-Propane
Methylcyclopropane
cyclo-Butane
cyclo-Pentane
neo-Pentane
Benzene
cyclo-Hexane
Methylcyclopentane
2,3-Dimethyl-1-butene
3,3-Dimethyl-1-butene
2,2-Dimethylbutane
2,3-Dimethylbutane
cyclo-Heptene
Ethylcyclopentane
Methylcyclohexane
2,2,3-Trimethylbutane
2,2-Dimethylpentane
3,3-Dimethylpentane
cis-Cyclooctene
1,1-Dimethylcyclohexane
1,4-Dioxane

Non-hydrocarbon hydrate formers:

Carbon dioxide
Carbon monoxide
Nitrogen
Oxygen
H₂S
Sulfur dioxide
Argon
Krypton
Xenon
Hydrogen
Dimethylether
1,4-Dioxane
Acetone

Ethylene
Acetylene
Propylene
Carbonyl sulphide
Methyl mercaptan
Nitrous oxide
Freon (R11)
THF
DME
i-Propanol*
n-Propanol*
Ethanol*

Non-hydrate formers:

n-Pentane
n-Hexane
n-Heptane
n-Octane
n-Nonane
n-Decane
n-Undecane
n-Dodecane
n-Tridecane
n-Tetradecane
n-Pentadecane
n-Hexadecane
n-Heptadecane
n-Octadecane
n-Nonadecane
n-Eicosane
...
n-C100
Toluene
Ethylbenzene m-xylene
p-Xylene
o-Xylene
m-Xylene

Organic inhibitors:

Methanol
Mono-ethylene glycol (MEG)
Di-ethylene glycol (DEG)
Tri-ethylene glycol (TEG)
Propylene glycol (PG)
Glycerol
i-Propanol*
n-Propanol*
Ethanol*

List of salts:

NaCl
KCl
CaCl₂
Na₂SO₄
NaF
KBr
MgCl₂
SrCl₂
BaCl₂
NaBr
HCOONa
HCOOK
K₂CO₃
CaBr₂
HCOOS
KOH
ZnCl₂
ZnBr₂
C₂H₃NaO₂

*Offer some degree of inhibition, but can also form hydrates under certain conditions.