

2-Propenamide, N,N'-methylenebis-

Other names:	Acrylamide, N,N'-methylenebis- Methylenebis[acrylamide] Methylenediacrylamide N,N'-Methylenebis[acrylamide] N,N'-Methylenediacrylamide N,N'-Methylidenebis[acrylamide] N,N'-Methylenebis(2-propenamide) N,N'-Diacryloylmethylenediamine Bis-acrylamide MBA NSC 406836 NAPP
Inchi:	InChI=1S/C7H10N2O2/c1-3-6(10)8-5-9-7(11)4-2/h3-4H,1-2,5H2,(H,8,10)(H,9,11)
InchiKey:	ZIUHHBKFKCYYJD-UHFFFAOYSA-N
Formula:	C7H10N2O2
SMILES:	<chem>C=CC(=O)NCNC(=O)C=C</chem>
Mol. weight [g/mol]:	154.17
CAS:	110-26-9

Physical Properties

Property code	Value	Unit	Source
gf	104.68	kJ/mol	Joback Method
hf	-55.17	kJ/mol	Joback Method
hfus	24.72	kJ/mol	Joback Method
hvap	56.20	kJ/mol	Joback Method
log10ws	-0.88		Crippen Method
logp	-0.452		Crippen Method
mcvol	123.990	ml/mol	McGowan Method
pc	3655.35	kPa	Joback Method
tb	561.00	K	Joback Method
tc	759.86	K	Joback Method
tf	370.31	K	Joback Method
vc	0.471	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.48	J/mol×K	561.00	Joback Method
cpg	293.45	J/mol×K	594.14	Joback Method
cpg	302.83	J/mol×K	627.29	Joback Method
cpg	311.65	J/mol×K	660.43	Joback Method
cpg	319.93	J/mol×K	693.57	Joback Method
cpg	327.70	J/mol×K	726.72	Joback Method
cpg	334.97	J/mol×K	759.86	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C110269&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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