Cyanamide, di-2-propenyl-

Other names:	Cyanamide, diallyl-
	Diallylcyanamide
	Di-2-propenylcyanamide
	Diallylkyanamid
	Diallycyanamide
Inchi:	InChI=1S/C7H10N2/c1-3-5-9(7-8)6-4-2/h3-4H,1-2,5-6H2
InchiKey:	ZOSAYFDMPYAZTB-UHFFFAOYSA-N
Formula:	C7H10N2
SMILES:	C=CCN(C#N)CC=C
Mol. weight [g/mol]:	122.17
CAS:	538-08-9

Physical Properties

Property code	Value	Unit	Source
gf	427.70	kJ/mol	Joback Method
hf	295.46	kJ/mol	Joback Method
hfus	15.85	kJ/mol	Joback Method
hvap	42.36	kJ/mol	Joback Method
log10ws	-1.39		Crippen Method
logp	1.141		Crippen Method
mcvol	112.250	ml/mol	McGowan Method
pc	2976.29	kPa	Joback Method
tb	467.44	K	Joback Method
tc	660.19	K	Joback Method
tf	262.59	K	Joback Method
vc	0.433	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.76	J/mol×K	628.07	Joback Method
cpg	226.47	J/mol×K	467.44	Joback Method
cpg	236.62	J/mol×K	499.57	Joback Method
cpg	246.19	J/mol×K	531.69	Joback Method

cpg	255.22	J/mol×K	563.82	Joback Method
cpg	263.74	J/mol×K	595.94	Joback Method
cpg	279.32	J/mol×K	660.19	Joback Method
hvapt	52.30	kJ/mol	432.00	NIST Webbook

Sources

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=C538089&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hvapt:	Enthalpy of vaporization at a given temperature
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