2-Propen-1-amine, N,N-di-2-propenyl-

Other names:	Triallylamine
	(CH2=CHCH2)3N
	UN 2610
	Tris(2-propenyl)amine
Inchi:	InChI=1S/C9H15N/c1-4-7-10(8-5-2)9-6-3/h4-6H,1-3,7-9H2
InchiKey:	VPYJNCGUESNPMV-UHFFFAOYSA-N
Formula:	C9H15N
SMILES:	C=CCN(CC=C)CC=C
Mol. weight [g/mol]:	137.22
CAS:	102-70-5

Physical Properties

Property code	Value	Unit	Source
affp	972.30	kJ/mol	NIST Webbook
basg	941.30	kJ/mol	NIST Webbook
gf	399.20	kJ/mol	Joback Method
hf	214.73	kJ/mol	Joback Method
hfus	18.25	kJ/mol	Joback Method
hvap	35.66	kJ/mol	Joback Method
ie	7.60	eV	NIST Webbook
ie	8.30 ± 0.30	eV	NIST Webbook
ie	8.30	eV	NIST Webbook
log10ws	-1.72		Crippen Method
logp	1.846		Crippen Method
mcvol	134.750	ml/mol	McGowan Method
pc	2608.40	kPa	Joback Method
tb	423.70	K	NIST Webbook
tb	428.70	K	NIST Webbook
tc	579.50	K	Joback Method
tf	218.38	K	Joback Method
vc	0.500	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.29	J/mol×K	407.80	Joback Method
cpg	269.90	J/mol×K	436.42	Joback Method
cpg	282.85	J/mol×K	465.03	Joback Method
cpg	295.16	J/mol×K	493.65	Joback Method
cpg	306.86	J/mol×K	522.27	Joback Method
cpg	317.98	J/mol×K	550.88	Joback Method
cpg	328.54	J/mol×K	579.50	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C102705&Units=SI

Legend

affp: Proton affinity
basg: Gas basicity
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
ie: Ionization energy
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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