

Alpha,gamma -dicyano-beta,beta-dimethyl glutarimide

Inchi:	InChI=1S/C9H9N3O2/c1-9(2)5(3-10)7(13)12-8(14)6(9)4-11/h5-6H,1-2H3,(H,12,13,14)
InchiKey:	WNUGDXSWWKZTSV-UHFFFAOYSA-N
Formula:	C9H9N3O2
SMILES:	CC1(C)C(C#N)C(=O)NC(=O)C1C#N
Mol. weight [g/mol]:	191.19
CAS:	61193-04-2

Physical Properties

Property code	Value	Unit	Source
gf	137.33	kJ/mol	Joback Method
hf	-108.04	kJ/mol	Joback Method
hfus	18.37	kJ/mol	Joback Method
hvap	70.50	kJ/mol	Joback Method
log10ws	-1.23		Crippen Method
logp	-0.051		Crippen Method
mcvol	142.690	ml/mol	McGowan Method
pc	2912.39	kPa	Joback Method
tb	804.12	K	Joback Method
tc	1070.86	K	Joback Method
tf	585.44	K	Joback Method
vc	0.572	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	417.19	J/molxK	804.12	Joback Method
cpg	430.65	J/molxK	848.58	Joback Method
cpg	443.45	J/molxK	893.03	Joback Method
cpg	455.64	J/molxK	937.49	Joback Method
cpg	467.25	J/molxK	981.95	Joback Method
cpg	478.33	J/molxK	1026.40	Joback Method
cpg	488.91	J/molxK	1070.86	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C61193042&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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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