Propanedinitrile, 2-dicyclopropylmethylene-

Inchi: InChI=1S/C10H10N2/c11-5-9(6-12)10(7-1-2-7)8-3-4-8/h7-8H,1-4H2
InchiKey: WNHGKHCOVLPMTE-UHFFFAOYSA-N
Formula: C10H10N2
SMILES: N#CC(C#N)=C(C1CC1)C1CC1
Mol. weight [g/mol]: 158.20
CAS: 13017-60-2

Physical Properties

Property code	Value	Unit	Source
gf	484.30	kJ/mol	Joback Method
hf	323.27	kJ/mol	Joback Method
hfus	18.52	kJ/mol	Joback Method
hvap	58.75	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.150		Crippen Method
mcvol	128.500	ml/mol	McGowan Method
pc	2752.67	kPa	Joback Method
tb	649.76	K	Joback Method
tc	890.71	K	Joback Method
tf	335.32	K	Joback Method
vc	0.543	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.61	J/mol×K	649.76	Joback Method
cpg	347.14	J/mol×K	689.92	Joback Method
cpg	357.78	J/mol×K	730.08	Joback Method
cpg	367.68	J/mol×K	770.23	Joback Method
cpg	376.96	J/mol×K	810.39	Joback Method
cpg	385.76	J/mol×K	850.55	Joback Method
cpg	394.22	J/mol×K	890.71	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13017602&Units=SI
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

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