cis-Cyclopropanecarbonitrile, 2-methyl-2-phenyl

Inchi: InChI=1S/C11H11N/c1-11(7-10(11)8-12)9-5-3-2-4-6-9/h2-6,10H,7H2,1H3/t10-,11+/m0/s1
InchiKey: NXEGBZUVVOEMCE-WDEREUQCSA-N
Formula: C11H11N
SMILES: CC1(c2ccccc2)CC1C#N
Mol. weight [g/mol]: 157.21

Physical Properties

Property code	Value	Unit	Source
gf	334.88	kJ/mol	Joback Method
hf	198.74	kJ/mol	Joback Method
hfus	12.70	kJ/mol	Joback Method
hvap	51.29	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.488		Crippen Method
mcvol	132.610	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
rinpol	1340.00		NIST Webbook
tb	582.15	K	Joback Method
tc	827.89	K	Joback Method
tf	342.74	K	Joback Method
vc	0.523	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	319.80	J/mol×K	582.15	Joback Method
cpg	333.78	J/mol×K	623.11	Joback Method
cpg	346.68	J/mol×K	664.06	Joback Method
cpg	358.70	J/mol×K	705.02	Joback Method
cpg	370.07	J/mol×K	745.98	Joback Method
cpg	380.98	J/mol×K	786.94	Joback Method
cpg	391.64	J/mol×K	827.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R13517&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume