

Tricyclo(3.3.1.1(3,7))decan-2-amine

Inchi: InChI=1S/C10H17N/c11-10-8-2-6-1-7(4-8)5-9(10)3-6/h6-10H,1-5,11H2
InchiKey: QZWNXXINFABALM-UHFFFAOYSA-N
Formula: C10H17N
SMILES: NC1C2CC3CC(C2)CC1C3
Mol. weight [g/mol]: 151.25
CAS: 13074-39-0

Physical Properties

Property code	Value	Unit	Source
gf	254.50	kJ/mol	Joback Method
hf	-44.38	kJ/mol	Joback Method
hfus	21.30	kJ/mol	Joback Method
hvap	47.79	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	1.770		Crippen Method
mcvol	129.160	ml/mol	McGowan Method
pc	3184.73	kPa	Joback Method
rinpol	1362.00		NIST Webbook
rinpol	1342.90		NIST Webbook
rinpol	1337.30		NIST Webbook
rinpol	1310.00		NIST Webbook
rinpol	1310.00		NIST Webbook
rinpol	1360.00		NIST Webbook
rinpol	1360.00		NIST Webbook
tb	515.88	K	Joback Method
tc	740.93	K	Joback Method
tf	327.54	K	Joback Method
vc	0.485	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	342.94	J/molxK	515.88	Joback Method
cpg	363.51	J/molxK	553.39	Joback Method

cpg	382.62	J/mol×K	590.90	Joback Method
cpg	400.37	J/mol×K	628.41	Joback Method
cpg	416.88	J/mol×K	665.91	Joback Method
cpg	432.23	J/mol×K	703.42	Joback Method
cpg	446.55	J/mol×K	740.93	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13074390&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
hvac:	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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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