(S)-(-)-«alpha»-(1-Naphthyl)ethylamine

Other names:	1-Naphthalenemethanamine, «alpha»-methyl-, (S)-
	(S)-(-)-(1-Naphthyl)ethylamine
	L-«alpha»-(«alpha»-Naphthyl)ethylamine
	L-«alpha»-(1-Naphthyl)ethylamine
	S-(-)-1-(1-Naphthyl)ethylamine
	S-(-)-1-(«alpha»-Naphthyl)ethylamine
	(S)-«alpha»-Methyl-1-naphthalenemethanamine
	(1S)-1-(1-Naphthyl)ethanamine
	1-Naphthalenemethanamine, alpha-methyl-, («alpha»S)-
	1-Naphthalenemethanamine, «alpha»-methyl-, (S)-(-)-
	1-Naphthalenemethanamine, «alpha»-methyl-, («alpha»S)-
Inchi:	InChI=1S/C12H13N/c1-9(13)11-8-4-6-10-5-2-3-7-12(10)11/h2-9H,13H2,1H3/t9-/m1/s1
InchiKey:	RTCUCQWIICFPOD-SECBINFHSA-N
Formula:	C12H13N
SMILES:	CC(N)c1cccc2ccccc12
Mol. weight [g/mol]:	171.24
CAS:	10420-89-0

Physical Properties

Property code	Value	Unit	Source
gf	323.60	kJ/mol	Joback Method
hf	153.63	kJ/mol	Joback Method
hfus	19.18	kJ/mol	Joback Method
hvap	57.14	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	2.859		Crippen Method
mcvol	146.700	ml/mol	McGowan Method
pc	3287.81	kPa	Joback Method
tb	596.69	K	Joback Method
tc	840.86	K	Joback Method
tf	364.90	K	Joback Method
vc	0.544	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	355.00	J/mol×K	596.69	Joback Method
cpg	369.94	J/mol×K	637.39	Joback Method
cpg	383.72	J/mol×K	678.08	Joback Method
cpg	396.43	J/mol×K	718.78	Joback Method
cpg	408.18	J/mol×K	759.47	Joback Method
cpg	419.04	J/mol×K	800.17	Joback Method
cpg	429.11	J/mol×K	840.86	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C10420890&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume