

1-Naphthalenamine, N-ethyl-

Other names:	1-Naphthylamine, N-ethyl- Ethyl-«alpha»-naphthylamine N-Ethyl-«alpha»-naphthylamine N-Ethyl-1-naphthylamine 2-(Ethylamino)naphthalene ethyl(1-naphthyl)amine
Inchi:	InChI=1S/C12H13N/c1-2-13-12-9-5-7-10-6-3-4-8-11(10)12/h3-9,13H,2H2,1H3
InchiKey:	KDFFXYVOTKKBDI-UHFFFAOYSA-N
Formula:	C12H13N
SMILES:	CCNc1cccc2ccccc12
Mol. weight [g/mol]:	171.24
CAS:	118-44-5

Physical Properties

Property code	Value	Unit	Source
gf	348.98	kJ/mol	Joback Method
hf	178.59	kJ/mol	Joback Method
hfus	22.61	kJ/mol	Joback Method
hvap	53.32	kJ/mol	Joback Method
log10ws	-3.70		Crippen Method
logp	3.272		Crippen Method
mcvol	146.700	ml/mol	McGowan Method
pc	3100.18	kPa	Joback Method
rinpol	1634.60		NIST Webbook
rinpol	1634.60		NIST Webbook
tb	574.77	K	Joback Method
tc	804.33	K	Joback Method
tf	349.30	K	Joback Method
vc	0.556	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.59	J/mol×K	574.77	Joback Method

cpg	359.52	J/mol×K	613.03	Joback Method
cpg	373.37	J/mol×K	651.29	Joback Method
cpg	386.23	J/mol×K	689.55	Joback Method
cpg	398.16	J/mol×K	727.81	Joback Method
cpg	409.24	J/mol×K	766.07	Joback Method
cpg	419.54	J/mol×K	804.33	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	448.70	K	2.00	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C118445&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature

tf: Normal melting (fusion) point
vc: Critical Volume

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