2-Ethyl-N-methylaniline

Inchi: InChI=1S/C9H13N/c1-3-8-6-4-5-7-9(8)10-2/h4-7,10H,3H2,1-2H3
InchiKey: CCYRVFJDASAJTG-UHFFFAOYSA-N
Formula: C9H13N
SMILES: CCc1ccccc1NC
Mol. weight [g/mol]: 135.21
CAS: 1821-38-1

Physical Properties

Property code	Value	Unit	Source
gf	217.07	kJ/mol	Joback Method
hf	49.44	kJ/mol	Joback Method
hfus	17.82	kJ/mol	Joback Method
hvap	45.00	kJ/mol	Joback Method
log10ws	-2.28		Crippen Method
logp	2.291		Crippen Method
mcvol	123.890	ml/mol	McGowan Method
pc	3254.14	kPa	Joback Method
rinpol	1203.10		NIST Webbook
rinpol	1203.10		NIST Webbook
tb	487.15	K	Joback Method
tc	697.80	K	Joback Method
tf	282.79	K	Joback Method
vc	0.467	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	260.77	J/mol×K	487.15	Joback Method
cpg	274.66	J/mol×K	522.26	Joback Method
cpg	287.77	J/mol×K	557.37	Joback Method
cpg	300.15	J/mol×K	592.47	Joback Method
cpg	311.81	J/mol×K	627.58	Joback Method
cpg	322.79	J/mol×K	662.69	Joback Method
cpg	333.12	J/mol×K	697.80	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1821381&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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