N,N-diethyl-p-ethylaniline

Inchi: InChI=1S/C12H19N/c1-4-11-7-9-12(10-8-11)13(5-2)6-3/h7-10H,4-6H2,1-3H3
InchiKey: CFWHSBCRIFAIEI-UHFFFAOYSA-N
Formula: C12H19N
SMILES: CCc1ccc(N(CC)CC)cc1
Mol. weight [g/mol]: 177.29

Physical Properties

Property code	Value	Unit	Source
gf	263.72	kJ/mol	Joback Method
hf	1.58	kJ/mol	Joback Method
hfus	23.51	kJ/mol	Joback Method
hvap	47.29	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	3.095		Crippen Method
mcvol	166.160	ml/mol	McGowan Method
pc	2365.67	kPa	Joback Method
rinpol	1424.80		NIST Webbook
rinpol	1423.00		NIST Webbook
ripol	1791.40		NIST Webbook
ripol	1792.20		NIST Webbook
ripol	1791.40		NIST Webbook
tb	518.06	K	Joback Method
tc	715.89	K	Joback Method
tf	296.41	K	Joback Method
vc	0.618	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.92	J/mol×K	518.06	Joback Method
cpg	398.08	J/mol×K	551.03	Joback Method
cpg	414.31	J/mol×K	584.00	Joback Method
cpg	429.65	J/mol×K	616.97	Joback Method
cpg	444.14	J/mol×K	649.95	Joback Method

cpg	457.81	J/mol×K	682.92	Joback Method
cpg	470.70	J/mol×K	715.89	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R246490&Units=SI

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume