p-Tetradecylaniline

Inchi: InChI=1S/C20H35N/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-19-15-17-20(21)18-16-19/h15-18
InchiKey: WKYFQPQIOXXPGE-UHFFFAOYSA-N
Formula: C20H35N
SMILES: CCCCCCCCCCCCCCc1ccc(N)cc1
Mol. weight [g/mol]: 289.50
CAS: 91323-12-5

Physical Properties

Property code	Value	Unit	Source
gf	286.75	kJ/mol	Joback Method
hf	-197.28	kJ/mol	Joback Method
hfus	46.40	kJ/mol	Joback Method
hvap	73.69	kJ/mol	Joback Method
log10ws	-6.93		Crippen Method
logp	6.512		Crippen Method
mcvol	278.880	ml/mol	McGowan Method
pc	1308.01	kPa	Joback Method
tb	761.19	K	Joback Method
tc	953.83	K	Joback Method
tf	437.36	K	Joback Method
vc	1.077	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	846.69	J/mol×K	761.19	Joback Method
cpg	865.74	J/mol×K	793.30	Joback Method
cpg	883.75	J/mol×K	825.40	Joback Method
cpg	900.77	J/mol×K	857.51	Joback Method
cpg	916.84	J/mol×K	889.62	Joback Method
cpg	932.02	J/mol×K	921.72	Joback Method
cpg	946.35	J/mol×K	953.83	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=C91323125&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume