N,n-diethyl-4-biphenylamine

Inchi: InChI=1S/C16H19N/c1-3-17(4-2)16-12-10-15(11-13-16)14-8-6-5-7-9-14/h5-13H,3-4H2,1-
InchiKey: SKIRVNHOMHVGJO-UHFFFAOYSA-N
Formula: C16H19N
SMILES: CCN(CC)c1ccc(-c2ccccc2)cc1
Mol. weight [g/mol]: 225.33
CAS: 5412-43-1

Physical Properties

Property code	Value	Unit	Source
gf	409.81	kJ/mol	Joback Method
hf	155.55	kJ/mol	Joback Method
hfus	27.91	kJ/mol	Joback Method
hvap	58.47	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	4.200		Crippen Method
mcvol	198.760	ml/mol	McGowan Method
pc	2248.26	kPa	Joback Method
tb	636.26	K	Joback Method
tc	863.58	K	Joback Method
tf	367.91	K	Joback Method
vc	0.734	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	510.36	J/mol×K	636.26	Joback Method
cpg	529.00	J/mol×K	674.15	Joback Method
cpg	546.32	J/mol×K	712.03	Joback Method
cpg	562.39	J/mol×K	749.92	Joback Method
cpg	577.28	J/mol×K	787.80	Joback Method
cpg	591.08	J/mol×K	825.69	Joback Method
cpg	603.86	J/mol×K	863.58	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=C5412431&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