2-Ethyldiphenylamine

Inchi: InChI=1S/C14H15N/c1-2-12-8-6-7-11-14(12)15-13-9-4-3-5-10-13/h3-11,15H,2H2,1H3
InchiKey: ZNLHZWKOQDHTSK-UHFFFAOYSA-N
Formula: C14H15N
SMILES: CCc1ccccc1Nc1ccccc1
Mol. weight [g/mol]: 197.28

Physical Properties

Property code	Value	Unit	Source
gf	371.58	kJ/mol	Joback Method
hf	182.77	kJ/mol	Joback Method
hfus	24.81	kJ/mol	Joback Method
hvap	58.41	kJ/mol	Joback Method
log10ws	-4.08		Crippen Method
logp	3.993		Crippen Method
mcvol	170.580	ml/mol	McGowan Method
pc	2764.26	kPa	Joback Method
rinpol	1688.50		NIST Webbook
tb	628.23	K	Joback Method
tc	866.74	K	Joback Method
tf	365.56	K	Joback Method
vc	0.638	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	423.81	J/mol×K	628.23	Joback Method
cpg	440.56	J/mol×K	667.98	Joback Method
cpg	456.06	J/mol×K	707.73	Joback Method
cpg	470.37	J/mol×K	747.49	Joback Method
cpg	483.58	J/mol×K	787.24	Joback Method
cpg	495.75	J/mol×K	826.99	Joback Method
cpg	506.95	J/mol×K	866.74	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R264785&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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