Ethylbenzylamine

Other names: Benzenemethanamine, N-ethyl-N-(phenylmethyl)-
N-ethyldibenzylamine
Inchi: InChI=1S/C16H19N/c1-2-17(13-15-9-5-3-6-10-15)14-16-11-7-4-8-12-16/h3-12H,2,13-14H
InchiKey: WBGPDYJIPNTOIB-UHFFFAOYSA-N
Formula: C16H19N
SMILES: CCN(Cc1ccccc1)Cc1ccccc1
Mol. weight [g/mol]: 225.33
CAS: 10479-25-1

Physical Properties

Property code	Value	Unit	Source
gf	419.44	kJ/mol	Joback Method
hf	167.02	kJ/mol	Joback Method
hfus	28.30	kJ/mol	Joback Method
hvap	57.81	kJ/mol	Joback Method
log10ws	-4.29		Crippen Method
logp	3.709		Crippen Method
mcvol	198.760	ml/mol	McGowan Method
pc	2280.59	kPa	Joback Method
tb	631.28	K	Joback Method
tc	857.67	K	Joback Method
tf	355.39	K	Joback Method
vc	0.734	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	510.60	J/mol×K	631.28	Joback Method
cpg	529.50	J/mol×K	669.01	Joback Method
cpg	547.02	J/mol×K	706.74	Joback Method
cpg	563.25	J/mol×K	744.48	Joback Method
cpg	578.28	J/mol×K	782.21	Joback Method
cpg	592.18	J/mol×K	819.94	Joback Method
cpg	605.05	J/mol×K	857.67	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=C10479251&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume