2-(Ethyl(m-tolyl)amino)ethyl isobutyl carbonate

Inchi: InChI=1S/C16H25NO3/c1-5-17(15-8-6-7-14(4)11-15)9-10-19-16(18)20-12-13(2)3/h6-8,11

InchiKey: NYBOBYPDLFLPRP-UHFFFAOYSA-N

Formula: C16H25NO3

SMILES: CCN(CCOC(=O)OCC(C)C)c1cccc(C)c1

Mol. weight [g/mol]: 279.37

Physical Properties

Property code	Value	Unit	Source
gf	-43.96	kJ/mol	Joback Method
hf	-463.28	kJ/mol	Joback Method
hfus	34.32	kJ/mol	Joback Method
hvap	67.37	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.631		Crippen Method
mcvol	235.830	ml/mol	McGowan Method
pc	1731.78	kPa	Joback Method
rinpol	1982.00		NIST Webbook
rinpol	1982.00		NIST Webbook
tb	707.85	K	Joback Method
tc	904.17	K	Joback Method
tf	420.88	K	Joback Method
vc	0.877	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	669.15	J/mol×K	707.85	Joback Method
cpg	686.22	J/mol×K	740.57	Joback Method
cpg	702.29	J/mol×K	773.29	Joback Method
cpg	717.38	J/mol×K	806.01	Joback Method
cpg	731.51	J/mol×K	838.73	Joback Method
cpg	744.70	J/mol×K	871.45	Joback Method
cpg	756.97	J/mol×K	904.17	Joback Method

Sources

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=U373680&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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