Tolpropamine

Other names:	Benzenepropanamine, N,N,4-trimethyl-«gamma»-phenyl- N,N-Dimethyl-3-phenyl-3-p-tolylpropylamine N,N-Dimethyl-3-phenyl-3-p-tolylpropamine Tolpropamide
Inchi:	InChI=1S/C18H23N/c1-15-9-11-17(12-10-15)18(13-14-19(2)3)16-7-5-4-6-8-16/h4-12,18H
InchiKey:	CINROOONPHQHPO-UHFFFAOYSA-N
Formula:	C18H23N
SMILES:	Cc1ccc(C(CCN(C)C)c2ccccc2)cc1
Mol. weight [g/mol]:	253.38
CAS:	5632-44-0

Physical Properties

Property code	Value	Unit	Source
gf	424.21	kJ/mol	Joback Method
hf	108.99	kJ/mol	Joback Method
hfus	29.57	kJ/mol	Joback Method
hvap	62.53	kJ/mol	Joback Method
log10ws	-4.26		Crippen Method
logp	4.079		Crippen Method
mcvol	226.940	ml/mol	McGowan Method
pc	1901.92	kPa	Joback Method
rinpol	1900.00		NIST Webbook
tb	681.58	K	Joback Method
tc	905.03	K	Joback Method
tf	375.45	K	Joback Method
vc	0.840	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	617.89	J/mol×K	681.58	Joback Method
cpg	637.41	J/mol×K	718.82	Joback Method
cpg	655.56	J/mol×K	756.06	Joback Method
cpg	672.42	J/mol×K	793.31	Joback Method

cpg	688.09	J/mol×K	830.55	Joback Method
cpg	702.63	J/mol×K	867.79	Joback Method
cpg	716.13	J/mol×K	905.03	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=C5632440&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