Benzamide, N-(3-methylphenyl)-

Other names: 3'-methylbenzanilide
Inchi: InChI=1S/C14H13NO/c1-11-6-5-9-13(10-11)15-14(16)12-7-3-2-4-8-12/h2-10H,1H3,(H,15
InchiKey: PDEGMQCBLXQVLD-UHFFFAOYSA-N
Formula: C14H13NO
SMILES: Cc1cccc(N=C(O)c2ccccc2)c1
Mol. weight [g/mol]: 211.26
CAS: 582-77-4

Physical Properties

Property code	Value	Unit	Source
hf	49.50	kJ/mol	Joback Method
hvap	72.05	kJ/mol	Joback Method
log10ws	-3.63		Crippen Method
logp	3.631		Crippen Method
mcvol	172.150	ml/mol	McGowan Method
pc	2704.22	kPa	Joback Method
rinpol	2106.00		NIST Webbook
rinpol	2106.00		NIST Webbook
tb	746.80	K	Joback Method
tc	983.91	K	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=C582774&Units=SI

Legend

hf:	Enthalpy of formation 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

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