

Salicylidene o-toluic hydrazone

Inchi: InChI=1S/C15H14N2O2/c1-11-6-2-4-8-13(11)15(19)17-16-10-12-7-3-5-9-14(12)18/h2-10
InchiKey: RRDKSNZDBMQWIG-UHFFFAOYSA-N
Formula: C15H14N2O2
SMILES: Cc1ccccc1C(=O)NN=Cc1ccccc1O
Mol. weight [g/mol]: 254.28
CAS: 82859-72-1

Physical Properties

Property code	Value	Unit	Source
hf	-45.54	kJ/mol	Joback Method
hvap	83.71	kJ/mol	Joback Method
log10ws	-3.71		Crippen Method
logp	2.465		Crippen Method
mcvol	197.790	ml/mol	McGowan Method
pc	2796.51	kPa	Joback Method
tb	862.28	K	Joback Method
tc	1119.44	K	Joback Method

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
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=C82859721&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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