

Benzoin phenylhydrazone

Inchi: InChI=1S/C20H18N2O/c23-20(17-12-6-2-7-13-17)19(16-10-4-1-5-11-16)22-21-18-14-8-3
InchiKey: GHLACQSAZQXFG-ZBJSNUHESA-N
Formula: C20H18N2O
SMILES: OC(C(=NNc1ccccc1)c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 302.37
CAS: 574-07-2

Physical Properties

Property code	Value	Unit	Source
chs	-10586.00	kJ/mol	NIST Webbook
hf	221.85	kJ/mol	Joback Method
hfs	96.70	kJ/mol	NIST Webbook
hvap	93.06	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.236		Crippen Method
mcvol	242.910	ml/mol	McGowan Method
pc	2200.01	kPa	Joback Method
tb	955.51	K	Joback Method
tc	1207.37	K	Joback Method

Sources

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C574072&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

chs: Standard solid enthalpy of combustion

hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase 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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