Salicyaldehyde phenylhydrazone

Inchi: InChI=1S/C13H12N2O/c16-13-9-5-4-6-11(13)10-14-15-12-7-2-1-3-8-12/h1-10,15-16H/b1
InchiKey: SERARPRVBWDEBA-GXDHUFHOSA-N
Formula: C13H12N2O
SMILES: Oc1ccccc1C=NNc1ccccc1
Mol. weight [g/mol]: 212.25
CAS: 614-65-3

Physical Properties

Property code	Value	Unit	Source
chs	-6686.90	kJ/mol	NIST Webbook
hf	119.79	kJ/mol	Joback Method
hfs	-144.00	kJ/mol	NIST Webbook
hvap	71.85	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.838		Crippen Method
mcvol	168.040	ml/mol	McGowan Method
pc	3276.53	kPa	Joback Method
tb	757.67	K	Joback Method
tc	1021.41	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C614653&Units=SI
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

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