

Diphenylthiocarbazide

Other names:	1,5-Diphenyl-3-thiocarbohydrazide Carbonothioic dihydrazide, 2,2'-diphenyl- Carbohydrazide, 1,5-diphenyl-3-thio- Urea, 1,3-dianilino-2-thio- USAF ek-3110 1,5-Diphenylthiocarbohydrazide 1,5-diphenyl-3-thiocarbonohydrazide
Inchi:	InChI=1S/C13H14N4S/c18-13(16-14-11-7-3-1-4-8-11)17-15-12-9-5-2-6-10-12/h1-10,14-1
InchiKey:	BNSNUHPJRKTRNT-UHFFFAOYSA-N
Formula:	C13H14N4S
SMILES:	SC(=NNc1ccccc1)NNc1ccccc1
Mol. weight [g/mol]:	258.34
CAS:	622-03-7

Physical Properties

Property code	Value	Unit	Source
hf	432.73	kJ/mol	Joback Method
hvap	78.52	kJ/mol	Joback Method
log10ws	-4.12		Crippen Method
logp	2.916		Crippen Method
mcvol	198.480	ml/mol	McGowan Method
pc	3082.99	kPa	Joback Method
tb	840.13	K	Joback Method
tc	1108.78	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C622037&Units=SI
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

Legend

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

Latest version available from:

<https://www.cheméo.com/cid/93-159-3/Diphenylthiocarbazide.pdf>

Generated by Cheméo on 2024-05-04 03:26:59.286823472 +0000 UTC m=+17082468.207400788.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.