

Benzil monohydrazone

Other names:	Ethanedione, diphenyl-, monohydrazone 2-Hydrazono-1,2-diphenyl-ethanone Hydrazonodeoxybenzoin 1,2-Ethanedione, 1,2-diphenyl-, 1-hydrazone 1,2-Diphenyl-1,2-ethanedione 1-hydrazone
Inchi:	InChI=1S/C14H12N2O/c15-16-13(11-7-3-1-4-8-11)14(17)12-9-5-2-6-10-12/h1-10H,15H2
InchiKey:	CDQPGWNBSOSEMZ-UHFFFAOYSA-N
Formula:	C14H12N2O
SMILES:	<chem>NN=C(C(=O)c1ccccc1)c1ccccc1</chem>
Mol. weight [g/mol]:	224.26
CAS:	5344-88-7

Physical Properties

Property code	Value	Unit	Source
hf	134.41	kJ/mol	Joback Method
hvap	72.09	kJ/mol	Joback Method
log10ws	-3.44		Crippen Method
logp	2.232		Crippen Method
mcvol	177.830	ml/mol	McGowan Method
pc	2829.33	kPa	Joback Method
tb	776.04	K	Joback Method
tc	1045.02	K	Joback Method

Sources

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=C5344887&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log10 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

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