1,2-Naphthalenedione, 1-(phenylhydrazone)

Inchi: InChI=1S/C16H12N2O/c19-15-11-10-12-6-4-5-9-14(12)16(15)18-17-13-7-2-1-3-8-13/h1-
InchiKey: ZONYAPYTDIVJGG-VLGSPTGOSA-N
Formula: C16H12N2O
SMILES: O=C1C=Cc2ccccc2C1=NNc1ccccc1
Mol. weight [g/mol]: 248.28
CAS: 1602-30-8

Physical Properties

Property code	Value	Unit	Source
hf	189.58	kJ/mol	Joback Method
hvap	71.94	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	3.099		Crippen Method
mcvol	190.850	ml/mol	McGowan Method
pc	2595.13	kPa	Joback Method
tb	835.81	K	Joback Method
tc	1109.31	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1602308&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

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