

1,2-Naphthalenedione, 1-[(4-acetylphenyl)hydrazone]

Inchi: InChI=1S/C18H14N2O2/c1-12(21)13-6-9-15(10-7-13)19-20-18-16-5-3-2-4-14(16)8-11-17
InchiKey: FKDYLAFEKVZTSG-ZZEZOPTASA-N
Formula: C18H14N2O2
SMILES: CC(=O)c1ccc(NN=C2C(=O)C=Cc3ccccc32)cc1
Mol. weight [g/mol]: 290.32
CAS: 97409-26-2

Physical Properties

Property code	Value	Unit	Source
hf	24.25	kJ/mol	Joback Method
hvap	83.80	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	3.301		Crippen Method
mcvol	220.600	ml/mol	McGowan Method
pc	2252.53	kPa	Joback Method
tb	940.42	K	Joback Method
tc	1206.65	K	Joback Method

Sources

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
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C97409262&Units=SI>

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

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