

4-(4-Nitrophenylazo)-1-naphthol

Other names:	4-(p-Nitrophenylazo)-1-naphthol 4-Nitrophenylazo-4'-(1-naphthol) 1-Naphthalenol, 4-[(4-nitrophenyl)azo]- p-Nitrophenylazo-«alpha»-naphthol Magneson II Magnezon II 1-Naphthol, 4-((p-nitrophenyl)azo)- 4-[(4-Nitrophenyl)diazenyl]-1-naphthol NSC 5048
Inchi:	InChI=1S/C16H11N3O3/c20-16-10-9-15(13-3-1-2-4-14(13)16)18-17-11-5-7-12(8-6-11)19
InchiKey:	MDLLSWJQIIAUQU-UHFFFAOYSA-N
Formula:	C16H11N3O3
SMILES:	O=[N+](O)c1ccc(N=Nc2ccc(O)c3ccccc23)cc1
Mol. weight [g/mol]:	293.28
CAS:	5290-62-0

Physical Properties

Property code	Value	Unit	Source
hf	126.77	kJ/mol	Joback Method
hvap	95.00	kJ/mol	Joback Method
log10ws	-5.52		Crippen Method
logp	4.869		Crippen Method
mcvol	208.270	ml/mol	McGowan Method
pc	2555.92	kPa	Joback Method
tb	1029.44	K	Joback Method
tc	1322.52	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5290620&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

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