1-Naphthol, 4-(4-nitrophenyl)azo-

Other names:	1-Naphthalenol, 4-[(4-nitrophenyl)azo]-
	1-Naphthol, 4-((p-nitrophenyl)azo)-
	4-(p-Nitrophenylazo)-1-naphthol
	4-Nitrophenylazo-4'-(1-naphthol)
	4-[(4-Nitrophenyl)diazenyl]-1-naphthol
	Magneson II
	Magnezon II
	NSC 5048
	p-Nitrophenylazo-«alpha»-naphthol
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

Physical Properties

Property code	Value	Unit	Source
hf	250.29	kJ/mol	Cheméo Relay (1.0)
ie	7.89	eV	Cheméo Relay (1.0)
log10ws	-4.75		Cheméo Relay (1.0)
logp	4.869		Crippen Method
mcvol	208.270	ml/mol	McGowan Method
tb	685.07	K	Cheméo Relay (1.0)
tf	482.44	K	Cheméo Relay (1.0)

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5290620&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

hf:	Enthalpy of formation at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point