

Diazenes, (4-nitrophenyl)phenyl-

Other names:	Azobenzene, 4-nitro- p-Nitroazobenzene 4-Nitroazobenzene (4-Nitro-phenyl)-phenyl-diazenes
Inchi:	InChI=1S/C12H9N3O2/c16-15(17)12-8-6-11(7-9-12)14-13-10-4-2-1-3-5-10/h1-9H
InchiKey:	TZTDJBMGPQLSLI-UHFFFAOYSA-N
Formula:	C12H9N3O2
SMILES:	O=[N+](O)c1ccc(N=Nc2ccccc2)cc1
Mol. weight [g/mol]:	227.22
CAS:	2491-52-3

Physical Properties

Property code	Value	Unit	Source
hf	207.04	kJ/mol	Joback Method
h _{vap}	70.78	kJ/mol	Joback Method
log ₁₀ ws	-4.16		Crippen Method
logp	4.010		Crippen Method
m _{cvol}	165.500	ml/mol	McGowan Method
pc	2568.89	kPa	Joback Method
tb	833.34	K	Joback Method
tc	1121.12	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=C2491523&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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