

1,3,6,8-Tetranitronaphthalene

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C10H4N4O8/c15-11(16)6-1-5-2-7(12(17)18)4-9(14(21)22)10(5)8(3-6)13(19)20

BFMBQYIQQLBGJA-UHFFFAOYSA-N

C10H4N4O8

O=[N+]([O-])c1cc([N+](=O)[O-])c2c([N+](=O)[O-])cc([N+](=O)[O-])cc2c1

308.16

Physical Properties

Property code	Value	Unit	Source
hf	172.02	kJ/mol	Cheméo Relay (1.0)
hfus	56.60	kJ/mol	Joback Method
hvap	110.13	kJ/mol	Cheméo Relay (1.0)
ie	10.06	eV	Cheméo Relay (1.0)
log10ws	-4.74		Cheméo Relay (1.0)
logp	2.473		Crippen Method
mcvol	178.220	ml/mol	McGowan Method
tb	615.93	K	Cheméo Relay (1.0)
tf	445.53	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	512.06	J/mol×K	1101.14	Joback Method
cpg	518.05	J/mol×K	1152.59	Joback Method
cpg	523.72	J/mol×K	1204.03	Joback Method
cpg	529.21	J/mol×K	1255.48	Joback Method
cpg	534.69	J/mol×K	1306.93	Joback Method
cpg	540.30	J/mol×K	1358.38	Joback Method
cpg	546.23	J/mol×K	1409.82	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C28995893&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

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

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization 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

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