2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (2,4-dinitrophenyl)hydrazone

Other names: Carvone, 2,4-dinitrophenyl hydrazone
p-Mentha-6,8-dien-2-one, 2,4-dinitro-phenylhydrazone
2,4-Dinitrophenylhydrazone carvone

Inchi: InChI=1S/C16H18N4O4/c1-10(2)12-5-4-11(3)15(8-12)18-17-14-7-6-13(19(21)22)9-16(14

InchiKey: ZACXARIVELKBSR-UHFFFAOYSA-N

Formula: C16H18N4O4

SMILES: C=C(C)C1CC=C(C)C(=NNc2ccc([N+](=O)[O-])cc2[N+](=O)[O-])C1

Mol. weight [g/mol]: 330.34

CAS: 3102-61-2

Physical Properties

Property code	Value	Unit	Source
hf	129.27	kJ/mol	Joback Method
hvap	99.36	kJ/mol	Joback Method
log10ws	-6.06		Crippen Method
logp	4.203		Crippen Method
mcvol	243.580	ml/mol	McGowan Method
pc	1938.95	kPa	Joback Method
tb	1055.38	K	Joback Method
tc	1329.90	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C3102612&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
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