

Decanal, 2,4-dinitrophenyl hydrazone

Other names:	2,4-dinitrophenylhydrazone decanal
Inchi:	InChI=1S/C16H24N4O4/c1-2-3-4-5-6-7-8-9-12-17-18-15-11-10-14(19(21)22)13-16(15)20
InchiKey:	WVTWCMFTBSTXFK-SFQUDFHCSA-N
Formula:	C16H24N4O4
SMILES:	CCCCCCCCC=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]:	336.39
CAS:	1527-95-3

Physical Properties

Property code	Value	Unit	Source
hf	-45.81	kJ/mol	Joback Method
hvap	97.74	kJ/mol	Joback Method
log10ws	-6.70		Crippen Method
logp	5.041		Crippen Method
mcvol	263.040	ml/mol	McGowan Method
pc	1573.45	kPa	Joback Method
rinpol	2951.00		NIST Webbook
tb	1032.65	K	Joback Method
tc	1278.20	K	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C1527953&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

hf: Enthalpy of formation at standard conditions

h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
p_c:	Critical Pressure
ri_{npol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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