

1,12-Dodecanedioyl dihydrazide

Other names:	Dodecanedioic acid, dihydrazide Dodecanedioic acid, 1,12-dihydrazide Dodecanedioic Dihydrazide
Inchi:	InChI=1S/C12H26N4O2/c13-15-11(17)9-7-5-3-1-2-4-6-8-10-12(18)16-14/h1-10,13-14H2
InchiKey:	GRGBENNGZARRZ-UHFFFAOYSA-N
Formula:	C12H26N4O2
SMILES:	NN=C(O)CCCCCCCCCCC(O)=NN
Mol. weight [g/mol]:	258.36
CAS:	4080-98-2

Physical Properties

Property code	Value	Unit	Source
hf	-383.03	kJ/mol	Joback Method
hvap	103.73	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	2.548		Crippen Method
mcvol	223.000	ml/mol	McGowan Method
pc	1937.24	kPa	Joback Method
tb	956.50	K	Joback Method
tc	1171.74	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=C4080982&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:	Log ₁₀ 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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