

Sarcosine anhydride

Other names:	1,4-Dimethyl-2,5-dioxopiperazine 1,4-Dimethylpiperazine-2,5-dione 1,4-Dimethylpiperazine-2,5-dione (chcl3 solution) 1,4-Dimethylpiperazine-2,5-dione (oil mull) 1,4-dimethyl-2,5-piperazinedione 2,5-Piperazinedione, 1,4-dimethyl- Cyclo(sarcosylsarcosyl) N,N'-Dimethyldiketopiperazine NSC 67461 Sarcosine anhydride, bimol. cyclic Sarcosine diketopiperazine
Inchi:	InChI=1S/C6H10N2O2/c1-7-3-6(10)8(2)4-5(7)9/h3-4H2,1-2H3
InchiKey:	PKDGRAULLDDTRN-UHFFFAOYSA-N
Formula:	C6H10N2O2
SMILES:	CN1CC(=O)N(C)CC1=O
Mol. weight [g/mol]:	142.16
CAS:	5076-82-4

Physical Properties

Property code	Value	Unit	Source
log10ws	1.08		Crippen Method
logp	-1.083		Crippen Method
mcvol	107.640	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	103.60	kJ/mol	298.15	Thermochemistry of sarcosine and sarcosine anhydride: Theoretical and experimental studies

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5076824&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Thermochemistry of sarcosine and sarcosine anhydride: Theoretical and experimental studies:	https://www.doi.org/10.1016/j.jct.2012.11.019

Legend

hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

Latest version available from:

<https://www.chemeo.com/cid/16-092-2/Sarcosine-anhydride.pdf>

Generated by Cheméo on 2024-04-20 09:10:18.958348246 +0000 UTC m=+15893467.878925558.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.