

# 1,10-Dioxa-4,7,13,16-tetrathiacyclooctadecane

<b>Inchi:</b>	InChI=1S/C12H24O2S4/c1-5-15-9-10-17-7-3-14-4-8-18-12-11-16-6-2-13-1/h1-12H2
<b>InchiKey:</b>	BFVXNKXLPBNMQI-UHFFFAOYSA-N
<b>Formula:</b>	C12H24O2S4
<b>SMILES:</b>	C1CSCCSCCOCCSCCSCCO1
<b>Mol. weight [g/mol]:</b>	328.58
<b>CAS:</b>	296-40-2

## Physical Properties

Property code	Value	Unit	Source
gf	-75.68	kJ/mol	Joback Method
hf	-373.23	kJ/mol	Joback Method
hfus	22.99	kJ/mol	Joback Method
hvap	77.38	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	2.966		Crippen Method
mvol	246.220	ml/mol	McGowan Method
pc	2847.48	kPa	Joback Method
rinpol	2833.00		NIST Webbook
tb	794.64	K	Joback Method
tc	1128.14	K	Joback Method
tf	581.32	K	Joback Method
vc	0.771	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	709.89	J/mol×K	794.64	Joback Method
cpg	735.46	J/mol×K	850.22	Joback Method
cpg	756.75	J/mol×K	905.81	Joback Method
cpg	773.58	J/mol×K	961.39	Joback Method
cpg	785.77	J/mol×K	1016.97	Joback Method
cpg	793.15	J/mol×K	1072.56	Joback Method
cpg	795.53	J/mol×K	1128.14	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C296402&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C296402&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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