

# Pentacosane, 1,2-bis(methylthio)

<b>Inchi:</b>	InChI=1S/C27H56S2/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25
<b>InchiKey:</b>	HZAHQJWPGNXPCN-UHFFFAOYSA-N
<b>Formula:</b>	C27H56S2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCC(CSC)SC
<b>Mol. weight [g/mol]:</b>	444.86

## Physical Properties

Property code	Value	Unit	Source
gf	240.26	kJ/mol	Joback Method
hf	-522.15	kJ/mol	Joback Method
hfus	70.42	kJ/mol	Joback Method
hvap	88.94	kJ/mol	Joback Method
log10ws	-11.00		Crippen Method
logp	10.683		Crippen Method
mcvol	423.990	ml/mol	McGowan Method
pc	704.33	kPa	Joback Method
rinpol	3324.00		NIST Webbook
rinpol	3324.00		NIST Webbook
tb	954.28	K	Joback Method
tc	1170.03	K	Joback Method
tf	447.85	K	Joback Method
vc	1.649	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1437.69	J/mol×K	954.28	Joback Method
cpg	1460.17	J/mol×K	990.24	Joback Method
cpg	1481.08	J/mol×K	1026.20	Joback Method
cpg	1500.47	J/mol×K	1062.16	Joback Method
cpg	1518.42	J/mol×K	1098.11	Joback Method
cpg	1535.00	J/mol×K	1134.07	Joback Method
cpg	1550.29	J/mol×K	1170.03	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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=R59321&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R59321&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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