

# 2,4,5,6,8-Pentathianonane

Inchi:	InChI=1S/C4H10S5/c1-5-3-7-9-8-4-6-2/h3-4H2,1-2H3
InchiKey:	RMWUJPCWKPBBS-UHFFFAOYSA-N
Formula:	C4H10S5
SMILES:	CSCSSSCSC
Mol. weight [g/mol]:	218.45
CAS:	88496-84-8

## Physical Properties

Property code	Value	Unit	Source
gf	148.40	kJ/mol	Joback Method
hf	83.46	kJ/mol	Joback Method
hfus	26.77	kJ/mol	Joback Method
hvap	58.58	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.657		Crippen Method
mvol	148.970	ml/mol	McGowan Method
pc	4345.39	kPa	Joback Method
rinpol	1852.50		NIST Webbook
rinpol	1852.50		NIST Webbook
tb	634.82	K	Joback Method
tc	920.89	K	Joback Method
tf	306.84	K	Joback Method
vc	0.529	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.02	J/mol×K	634.82	Joback Method
cpg	311.13	J/mol×K	682.50	Joback Method
cpg	321.33	J/mol×K	730.18	Joback Method
cpg	330.54	J/mol×K	777.85	Joback Method
cpg	338.71	J/mol×K	825.53	Joback Method
cpg	345.77	J/mol×K	873.21	Joback Method
cpg	351.66	J/mol×K	920.89	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C88496848&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C88496848&amp;Units=SI</a>
<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.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>

# 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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