

# 2-Propylthiopentanoate

<b>Inchi:</b>	InChI=1S/C8H16OS/c1-4-5-6-8(9)10-7(2)3/h7H,4-6H2,1-3H3
<b>InchiKey:</b>	MUDAALKSNHQOBZ-UHFFFAOYSA-N
<b>Formula:</b>	C8H16OS
<b>SMILES:</b>	CCCCC(=O)SC(C)C
<b>Mol. weight [g/mol]:</b>	160.28

## Physical Properties

Property code	Value	Unit	Source
gf	-81.76	kJ/mol	Joback Method
hf	-284.44	kJ/mol	Joback Method
hfus	18.68	kJ/mol	Joback Method
hvap	46.58	kJ/mol	Joback Method
log10ws	-2.94		Crippen Method
logp	2.845		Crippen Method
mcvol	141.500	ml/mol	McGowan Method
pc	2775.92	kPa	Joback Method
ripol	1488.00		NIST Webbook
ripol	1488.00		NIST Webbook
tb	504.65	K	Joback Method
tc	704.63	K	Joback Method
tf	249.25	K	Joback Method
vc	0.537	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.83	J/mol×K	504.65	Joback Method
cpg	321.28	J/mol×K	537.98	Joback Method
cpg	334.10	J/mol×K	571.31	Joback Method
cpg	346.32	J/mol×K	604.64	Joback Method
cpg	357.93	J/mol×K	637.97	Joback Method
cpg	368.95	J/mol×K	671.30	Joback Method
cpg	379.39	J/mol×K	704.63	Joback Method

# Sources

<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=R593652&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R593652&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

# 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>h vap:</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>ri pol:</b>	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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