

# Benzoic acid, 4-(methylthio)-, pentyl ester

<b>Inchi:</b>	InChI=1S/C13H18O2S/c1-3-4-5-10-15-13(14)11-6-8-12(16-2)9-7-11/h6-9H,3-5,10H2,1-2
<b>InchiKey:</b>	HEDLMGFLYIMWCE-UHFFFAOYSA-N
<b>Formula:</b>	C13H18O2S
<b>SMILES:</b>	CCCCCOC(=O)c1ccc(SC)cc1
<b>Mol. weight [g/mol]:</b>	238.35

## Physical Properties

Property code	Value	Unit	Source
gf	-39.44	kJ/mol	Joback Method
hf	-289.52	kJ/mol	Joback Method
hfus	29.99	kJ/mol	Joback Method
hvap	63.44	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	3.756		Crippen Method
mcvol	194.060	ml/mol	McGowan Method
pc	2295.91	kPa	Joback Method
rinpola	1971.00		NIST Webbook
tb	673.57	K	Joback Method
tc	893.32	K	Joback Method
tf	381.77	K	Joback Method
vc	0.734	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.32	J/molxK	673.57	Joback Method
cpg	514.64	J/molxK	710.20	Joback Method
cpg	528.98	J/molxK	746.82	Joback Method
cpg	542.35	J/molxK	783.45	Joback Method
cpg	554.78	J/molxK	820.07	Joback Method
cpg	566.27	J/molxK	856.70	Joback Method
cpg	576.85	J/molxK	893.32	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.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=U374958&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374958&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>hvap:</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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