

# Benzoic acid, 2-(2-methylbutyl)thio-

<b>Inchi:</b>	InChI=1S/C12H16O2S/c1-3-9(2)8-14-12(13)10-6-4-5-7-11(10)15/h4-7,9,15H,3,8H2,1-2H
<b>InchiKey:</b>	MCCQSPCDUGUPLU-UHFFFAOYSA-N
<b>Formula:</b>	C12H16O2S
<b>SMILES:</b>	CCC(C)COC(=O)c1ccccc1S
<b>Mol. weight [g/mol]:</b>	224.32

## Physical Properties

Property code	Value	Unit	Source
gf	-54.03	kJ/mol	Joback Method
hf	-277.55	kJ/mol	Joback Method
hfus	23.79	kJ/mol	Joback Method
hvap	60.75	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	3.178		Crippen Method
mcvol	179.970	ml/mol	McGowan Method
pc	2668.02	kPa	Joback Method
rinqol	1907.00		NIST Webbook
tb	644.33	K	Joback Method
tc	873.13	K	Joback Method
tf	357.56	K	Joback Method
vc	0.671	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.52	J/molxK	644.33	Joback Method
cpg	460.60	J/molxK	682.46	Joback Method
cpg	474.70	J/molxK	720.60	Joback Method
cpg	487.84	J/molxK	758.73	Joback Method
cpg	500.04	J/molxK	796.86	Joback Method
cpg	511.33	J/molxK	834.99	Joback Method
cpg	521.74	J/molxK	873.13	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=U375409&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375409&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>

# 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>hvac:</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>mccol:</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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