

# (Phenylthio)acetic acid, heptyl ester

<b>Inchi:</b>	InChI=1S/C15H22O2S/c1-2-3-4-5-9-12-17-15(16)13-18-14-10-7-6-8-11-14/h6-8,10-11H,1
<b>InchiKey:</b>	CGQZJXYQJQDCGP-UHFFFAOYSA-N
<b>Formula:</b>	C15H22O2S
<b>SMILES:</b>	CCCCCCCOC(=O)CSc1ccccc1
<b>Mol. weight [g/mol]:</b>	266.40

## Physical Properties

Property code	Value	Unit	Source
gf	-12.97	kJ/mol	Joback Method
hf	-319.33	kJ/mol	Joback Method
hfus	35.56	kJ/mol	Joback Method
hvap	67.23	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	4.292		Crippen Method
mcvol	222.240	ml/mol	McGowan Method
pc	1950.95	kPa	Joback Method
rinsol	1902.00		NIST Webbook
tb	714.35	K	Joback Method
tc	926.56	K	Joback Method
tf	391.79	K	Joback Method
vc	0.846	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	606.44	J/mol×K	714.35	Joback Method
cpg	622.68	J/mol×K	749.72	Joback Method
cpg	637.86	J/mol×K	785.09	Joback Method
cpg	652.01	J/mol×K	820.46	Joback Method
cpg	665.14	J/mol×K	855.83	Joback Method
cpg	677.29	J/mol×K	891.19	Joback Method
cpg	688.48	J/mol×K	926.56	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=U299845&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299845&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>hvpap:</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>ripol:</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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