

# 4-Isopropylbenzenethiol, S-acetyl-

<b>Inchi:</b>	InChI=1S/C11H14OS/c1-8(2)10-4-6-11(7-5-10)13-9(3)12/h4-8H,1-3H3
<b>InchiKey:</b>	QMBWRQVNMADNBE-UHFFFAOYSA-N
<b>Formula:</b>	C11H14OS
<b>SMILES:</b>	CC(=O)Sc1ccc(C(C)C)cc1
<b>Mol. weight [g/mol]:</b>	194.29

## Physical Properties

Property code	Value	Unit	Source
gf	46.28	kJ/mol	Joback Method
hf	-121.30	kJ/mol	Joback Method
hfus	20.10	kJ/mol	Joback Method
hvap	56.19	kJ/mol	Joback Method
log10ws	-3.59		Crippen Method
logp	3.449		Crippen Method
mcvol	160.010	ml/mol	McGowan Method
pc	2859.68	kPa	Joback Method
rinqol	1530.70		NIST Webbook
tb	604.95	K	Joback Method
tc	841.20	K	Joback Method
tf	322.00	K	Joback Method
vc	0.598	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	374.21	J/mol×K	604.95	Joback Method
cpg	389.04	J/mol×K	644.33	Joback Method
cpg	402.87	J/mol×K	683.70	Joback Method
cpg	415.73	J/mol×K	723.08	Joback Method
cpg	427.66	J/mol×K	762.45	Joback Method
cpg	438.67	J/mol×K	801.83	Joback Method
cpg	448.81	J/mol×K	841.20	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=U353047&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353047&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

Latest version available from:

<https://www.chemeo.com/cid/34-400-9/4-Isopropylbenzenethiol-S-acetyl.pdf>

Generated by Cheméo on 2024-04-24 17:08:54.774280305 +0000 UTC m=+16267783.694857616.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.