

# 3-Heptanol, trifluoroacetate

<b>Inchi:</b>	InChI=1S/C9H15F3O2/c1-3-5-6-7(4-2)14-8(13)9(10,11)12/h7H,3-6H2,1-2H3
<b>InchiKey:</b>	ISBQSSHMLYEHKL-UHFFFAOYSA-N
<b>Formula:</b>	C9H15F3O2
<b>SMILES:</b>	CCCCC(CC)OC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	212.21
<b>CAS:</b>	90991-69-8

## Physical Properties

Property code	Value	Unit	Source
gf	-793.05	kJ/mol	Joback Method
hf	-1076.25	kJ/mol	Joback Method
hfus	20.16	kJ/mol	Joback Method
hvap	40.65	kJ/mol	Joback Method
log10ws	-3.23		Crippen Method
logp	3.061		Crippen Method
mcvol	150.420	ml/mol	McGowan Method
pc	2175.46	kPa	Joback Method
rinpol	878.00		NIST Webbook
rinpol	878.00		NIST Webbook
tb	475.75	K	Joback Method
tc	638.38	K	Joback Method
tf	252.54	K	Joback Method
vc	0.601	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.52	J/mol×K	475.75	Joback Method
cpg	363.33	J/mol×K	502.85	Joback Method
cpg	375.59	J/mol×K	529.96	Joback Method
cpg	387.31	J/mol×K	557.06	Joback Method
cpg	398.50	J/mol×K	584.17	Joback Method
cpg	409.17	J/mol×K	611.27	Joback Method
cpg	419.35	J/mol×K	638.38	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=C90991698&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C90991698&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>hvp:</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>rinp:</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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