

# Methyl salicylate, Rut, TFA

<b>Inchi:</b>	InChI=1S/C32H22F18O18/c1-8-12(63-21(52)27(33,34)35)14(65-23(54)29(39,40)41)16(6
<b>InchiKey:</b>	GRVDKAYNFVDHBS-UNENLGJYSA-N
<b>Formula:</b>	C32H22F18O18
<b>SMILES:</b>	COC(=O)c1ccccc1OC1OC(COC2OC(C)C(OC(=O)C(F)(F)F)C(OC(=O)C(F)(F)F)C2OC(=
<b>Mol. weight [g/mol]:</b>	1036.48

## Physical Properties

Property code	Value	Unit	Source
gf	-5200.66	kJ/mol	Joback Method
hf	-6357.35	kJ/mol	Joback Method
hfus	113.33	kJ/mol	Joback Method
hvap	143.60	kJ/mol	Joback Method
log10ws	-7.77		Crippen Method
logp	4.183		Crippen Method
mcvol	523.680	ml/mol	McGowan Method
pc	552.59	kPa	Joback Method
rinpol	2224.00		NIST Webbook
rinpol	2234.00		NIST Webbook
rinpol	2224.00		NIST Webbook
tb	1565.21	K	Joback Method
tc	2459.66	K	Joback Method
tf	1098.04	K	Joback Method
vc	2.082	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1680.61	J/molxK	1565.21	Joback Method
cpg	1528.06	J/molxK	1714.29	Joback Method
cpg	1333.71	J/molxK	1863.36	Joback Method
cpg	1100.01	J/molxK	2012.44	Joback Method
cpg	829.37	J/molxK	2161.51	Joback Method
cpg	524.22	J/molxK	2310.59	Joback Method
cpg	186.99	J/molxK	2459.66	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=R394757&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R394757&amp;Units=SI</a>
<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>

# 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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