

# Maleic acid, bis(2,2,2-trifluoroethyl) ester

<b>Inchi:</b>	InChI=1S/C8H6F6O4/c9-7(10,11)3-17-5(15)1-2-6(16)18-4-8(12,13)14/h1-2H,3-4H2/b2-1
<b>InchiKey:</b>	KZTDZFZLDVZRCF-UPHRSURJSA-N
<b>Formula:</b>	C8H6F6O4
<b>SMILES:</b>	O=C(C=CC(=O)OCC(F)(F)F)OCC(F)(F)F
<b>Mol. weight [g/mol]:</b>	280.12
<b>CAS:</b>	116401-64-0

## Physical Properties

Property code	Value	Unit	Source
gf	-1534.32	kJ/mol	Joback Method
hf	-1774.99	kJ/mol	Joback Method
hfus	25.90	kJ/mol	Joback Method
hvap	44.18	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	1.754		Crippen Method
mcvol	144.780	ml/mol	McGowan Method
pc	2324.78	kPa	Joback Method
tb	528.34	K	Joback Method
tc	691.34	K	Joback Method
tf	327.54	K	Joback Method
vc	0.598	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	360.34	J/molxK	528.34	Joback Method
cpg	369.82	J/molxK	555.51	Joback Method
cpg	378.74	J/molxK	582.67	Joback Method
cpg	387.12	J/molxK	609.84	Joback Method
cpg	395.00	J/molxK	637.01	Joback Method
cpg	402.38	J/molxK	664.17	Joback Method
cpg	409.30	J/molxK	691.34	Joback Method

# Sources

<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=C116401640&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C116401640&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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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