

# Ketogluconic acid methyl ester, tetrakis(trifluoroacetate) (isomer 3)

<b>Inchi:</b>	InChI=1S/C15H8F12O11/c1-34-7(29)4(28)6(38-11(33)15(25,26)27)5(37-10(32)14(22,23)
<b>InchiKey:</b>	ODXLNIXRVBTRPN-UHFFFAOYSA-N
<b>Formula:</b>	C15H8F12O11
<b>SMILES:</b>	COC(=O)C(=O)C(OC(=O)C(F)(F)F)C(OC(=O)C(F)(F)F)C(COC(=O)C(F)(F)F)OC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	592.20

## Physical Properties

Property code	Value	Unit	Source
gf	-3556.78	kJ/mol	Joback Method
hf	-4093.67	kJ/mol	Joback Method
hfus	46.87	kJ/mol	Joback Method
hvap	85.36	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	1.256		Crippen Method
mvol	282.220	ml/mol	McGowan Method
pc	1270.97	kPa	Joback Method
rinpol	1236.80		NIST Webbook
tb	954.92	K	Joback Method
tc	1176.49	K	Joback Method
tf	641.30	K	Joback Method
vc	1.155	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	904.59	J/mol×K	954.92	Joback Method
cpg	910.91	J/mol×K	991.85	Joback Method
cpg	916.02	J/mol×K	1028.78	Joback Method
cpg	919.96	J/mol×K	1065.71	Joback Method
cpg	922.81	J/mol×K	1102.64	Joback Method
cpg	924.61	J/mol×K	1139.57	Joback Method
cpg	925.43	J/mol×K	1176.49	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U380315&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380315&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

# 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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