

# Glutaric acid, 2,2,3,3-tetrafluoropropyl 2-formylphenyl ester

<b>Inchi:</b>	InChI=1S/C15H14F4O5/c16-14(17)15(18,19)9-23-12(21)6-3-7-13(22)24-11-5-2-1-4-10(1
<b>InchiKey:</b>	OHEDQDZEASKTMT-UHFFFAOYSA-N
<b>Formula:</b>	C15H14F4O5
<b>SMILES:</b>	O=Cc1ccccc1OC(=O)CCCC(=O)OCC(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	350.26

## Physical Properties

Property code	Value	Unit	Source
gf	-1168.00	kJ/mol	Joback Method
hf	-1501.52	kJ/mol	Joback Method
hfus	37.50	kJ/mol	Joback Method
hvap	72.00	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.018		Crippen Method
mcvol	221.980	ml/mol	McGowan Method
pc	1843.58	kPa	Joback Method
rinpola	2031.00		NIST Webbook
rinpola	2031.00		NIST Webbook
tb	768.91	K	Joback Method
tc	961.41	K	Joback Method
tf	473.85	K	Joback Method
vc	0.887	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	642.92	J/mol×K	768.91	Joback Method
cpg	654.42	J/mol×K	800.99	Joback Method
cpg	665.07	J/mol×K	833.08	Joback Method
cpg	674.89	J/mol×K	865.16	Joback Method
cpg	683.91	J/mol×K	897.24	Joback Method
cpg	692.16	J/mol×K	929.32	Joback Method
cpg	699.66	J/mol×K	961.41	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=U390488&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390488&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>rlnol:</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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