

# Glutaric acid, di(4-(trifluoromethoxy)benzyl) ester

Inchi:	InChI=1S/C21H18F6O6/c22-20(23,24)32-16-8-4-14(5-9-16)12-30-18(28)2-1-3-19(29)31-
InchiKey:	FTWLSFQXVDGWCR-UHFFFAOYSA-N
Formula:	C21H18F6O6
SMILES:	O=C(CCCC(=O)OCc1ccc(OC(F)(F)F)cc1)OCc1ccc(OC(F)(F)F)cc1
Mol. weight [g/mol]:	480.35

## Physical Properties

Property code	Value	Unit	Source
gf	-1509.52	kJ/mol	Joback Method
hf	-1974.85	kJ/mol	Joback Method
hfus	49.05	kJ/mol	Joback Method
hvap	83.85	kJ/mol	Joback Method
log10ws	-7.25		Crippen Method
logp	5.441		Crippen Method
mcvol	296.470	ml/mol	McGowan Method
pc	1297.66	kPa	Joback Method
rinpol	2448.00		NIST Webbook
rinpol	2448.00		NIST Webbook
tb	929.78	K	Joback Method
tc	1140.78	K	Joback Method
tf	601.47	K	Joback Method
vc	1.165	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	936.34	J/mol×K	929.78	Joback Method
cpg	947.29	J/mol×K	964.95	Joback Method
cpg	957.03	J/mol×K	1000.11	Joback Method
cpg	965.63	J/mol×K	1035.28	Joback Method
cpg	973.11	J/mol×K	1070.44	Joback Method
cpg	979.53	J/mol×K	1105.61	Joback Method
cpg	984.93	J/mol×K	1140.78	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=U377350&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377350&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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