

# Glutaric acid, 2,4,6-trichlorophenyl 2,3,4-trifluorophenyl ester

<b>Inchi:</b>	InChI=1S/C17H10Cl3F3O4/c18-8-6-9(19)17(10(20)7-8)27-14(25)3-1-2-13(24)26-12-5-4-
<b>InchiKey:</b>	BCTAKADCXXFIGJ-UHFFFAOYSA-N
<b>Formula:</b>	C17H10Cl3F3O4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1c(Cl)cc(Cl)cc1Cl)Oc1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	441.61

## Physical Properties

Property code	Value	Unit	Source
gf	-828.76	kJ/mol	Joback Method
hf	-1115.12	kJ/mol	Joback Method
hfus	52.94	kJ/mol	Joback Method
hvap	90.98	kJ/mol	Joback Method
log10ws	-7.22		Crippen Method
logp	5.745		Crippen Method
mvol	259.780	ml/mol	McGowan Method
pc	1690.72	kPa	Joback Method
rinpol	2679.00		NIST Webbook
rinpol	2679.00		NIST Webbook
tb	934.28	K	Joback Method
tc	1159.23	K	Joback Method
tf	645.16	K	Joback Method
vc	1.020	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	688.68	J/mol×K	934.28	Joback Method
cpg	696.77	J/mol×K	971.77	Joback Method
cpg	703.77	J/mol×K	1009.26	Joback Method
cpg	709.70	J/mol×K	1046.76	Joback Method
cpg	714.54	J/mol×K	1084.25	Joback Method
cpg	718.30	J/mol×K	1121.74	Joback Method
cpg	720.99	J/mol×K	1159.23	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393647&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393647&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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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