

# Glutaric acid, 2-fluorophenyl diphenylmethyl ester

<b>Inchi:</b>	InChI=1S/C24H21FO4/c25-20-14-7-8-15-21(20)28-22(26)16-9-17-23(27)29-24(18-10-3-1
<b>InchiKey:</b>	BOMPRRSLWOJEHC-UHFFFAOYSA-N
<b>Formula:</b>	C24H21FO4
<b>SMILES:</b>	O=C(CCCC(=O)OC(c1ccccc1)c1ccccc1)Oc1ccccc1F
<b>Mol. weight [g/mol]:</b>	392.42

## Physical Properties

Property code	Value	Unit	Source
gf	-186.29	kJ/mol	Joback Method
hf	-531.56	kJ/mol	Joback Method
hfus	44.78	kJ/mol	Joback Method
hvap	93.62	kJ/mol	Joback Method
log10ws	-6.44		Crippen Method
logp	5.234		Crippen Method
mvol	294.390	ml/mol	McGowan Method
pc	1614.17	kPa	Joback Method
rinpol	2954.00		NIST Webbook
rinpol	2954.00		NIST Webbook
tb	984.95	K	Joback Method
tc	1226.30	K	Joback Method
tf	581.93	K	Joback Method
vc	1.115	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	916.98	J/mol×K	984.95	Joback Method
cpg	928.71	J/mol×K	1025.18	Joback Method
cpg	939.00	J/mol×K	1065.40	Joback Method
cpg	947.94	J/mol×K	1105.63	Joback Method
cpg	955.60	J/mol×K	1145.85	Joback Method
cpg	962.07	J/mol×K	1186.08	Joback Method
cpg	967.42	J/mol×K	1226.30	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393345&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393345&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>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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