

# Glutaric acid, 3-methylbut-2-en-1-yl 5-methyl-2-methoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C18H24O5/c1-13(2)10-11-22-17(19)6-5-7-18(20)23-16-12-14(3)8-9-15(16)21-4
<b>InchiKey:</b>	FQNHBYPALNGZPL-UHFFFAOYSA-N
<b>Formula:</b>	C18H24O5
<b>SMILES:</b>	COc1ccc(C)cc1OC(=O)CCCC(=O)OCC=C(C)C
<b>Mol. weight [g/mol]:</b>	320.38

## Physical Properties

Property code	Value	Unit	Source
gf	-307.34	kJ/mol	Joback Method
hf	-715.65	kJ/mol	Joback Method
hfus	41.29	kJ/mol	Joback Method
hvap	80.02	kJ/mol	Joback Method
log10ws	-4.45		Crippen Method
logp	3.589		Crippen Method
mcvol	257.170	ml/mol	McGowan Method
pc	1583.49	kPa	Joback Method
rinpola	2355.00		NIST Webbook
rinpola	2355.00		NIST Webbook
tb	826.92	K	Joback Method
tc	1034.45	K	Joback Method
tf	491.59	K	Joback Method
vc	0.983	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	762.66	J/molxK	826.92	Joback Method
cpg	777.46	J/molxK	861.51	Joback Method
cpg	791.19	J/molxK	896.10	Joback Method
cpg	803.84	J/molxK	930.68	Joback Method
cpg	815.45	J/molxK	965.27	Joback Method
cpg	826.00	J/molxK	999.86	Joback Method
cpg	835.53	J/molxK	1034.45	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393923&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393923&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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