

# Glutaric acid, pentyl phenethyl ester

<b>Inchi:</b>	InChI=1S/C18H26O4/c1-2-3-7-14-21-17(19)11-8-12-18(20)22-15-13-16-9-5-4-6-10-16/h4
<b>InchiKey:</b>	BMKQGYWBULHUBB-UHFFFAOYSA-N
<b>Formula:</b>	C18H26O4
<b>SMILES:</b>	CCCCCOC(=O)CCCC(=O)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	306.40

## Physical Properties

Property code	Value	Unit	Source
gf	-254.75	kJ/mol	Joback Method
hf	-667.92	kJ/mol	Joback Method
hfus	41.99	kJ/mol	Joback Method
hvap	76.25	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	3.676		Crippen Method
mcvol	255.600	ml/mol	McGowan Method
pc	1570.96	kPa	Joback Method
rinpola	2317.00		NIST Webbook
tb	790.50	K	Joback Method
tc	989.35	K	Joback Method
tf	463.36	K	Joback Method
vc	0.984	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	761.94	J/molxK	790.50	Joback Method
cpg	777.71	J/molxK	823.64	Joback Method
cpg	792.42	J/molxK	856.78	Joback Method
cpg	806.11	J/molxK	889.92	Joback Method
cpg	818.79	J/molxK	923.07	Joback Method
cpg	830.49	J/molxK	956.21	Joback Method
cpg	841.23	J/molxK	989.35	Joback Method
dvisc	0.0008523	Paxs	463.36	Joback Method
dvisc	0.0004537	Paxs	517.88	Joback Method

dvisc	0.0002723	Paxs	572.41	Joback Method
dvisc	0.0001786	Paxs	626.93	Joback Method
dvisc	0.0001253	Paxs	681.45	Joback Method
dvisc	0.0000927	Paxs	735.98	Joback Method
dvisc	0.0000715	Paxs	790.50	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U358680&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358680&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>hvap:</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>rinpol:</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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