

# Glutaric acid, pentachlorophenyl pentyl ester

<b>Inchi:</b>	InChI=1S/C16H17Cl5O4/c1-2-3-4-8-24-9(22)6-5-7-10(23)25-16-14(20)12(18)11(17)13(19)
<b>InchiKey:</b>	SWCUXQIWCBQLNP-UHFFFAOYSA-N
<b>Formula:</b>	C16H17Cl5O4
<b>SMILES:</b>	CCCCCOC(=O)CCCC(=O)Oc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	450.57

## Physical Properties

Property code	Value	Unit	Source
gf	-379.39	kJ/mol	Joback Method
hf	-762.69	kJ/mol	Joback Method
hfus	55.85	kJ/mol	Joback Method
hvap	97.03	kJ/mol	Joback Method
log10ws	-7.42		Crippen Method
logp	6.763		Crippen Method
mvol	288.620	ml/mol	McGowan Method
pc	1489.58	kPa	Joback Method
rinpol	2904.00		NIST Webbook
rinpol	2904.00		NIST Webbook
tb	956.79	K	Joback Method
tc	1182.64	K	Joback Method
tf	653.02	K	Joback Method
vc	1.117	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	757.16	J/molxK	956.79	Joback Method
cpg	766.20	J/molxK	994.43	Joback Method
cpg	774.14	J/molxK	1032.07	Joback Method
cpg	780.96	J/molxK	1069.72	Joback Method
cpg	786.66	J/molxK	1107.36	Joback Method
cpg	791.26	J/molxK	1145.00	Joback Method
cpg	794.73	J/molxK	1182.64	Joback Method
dvisc	0.0002265	Paxs	653.02	Joback Method

dvisc	0.0001594	Paxs	703.65	Joback Method
dvisc	0.0001176	Paxs	754.28	Joback Method
dvisc	0.0000902	Paxs	804.90	Joback Method
dvisc	0.0000713	Paxs	855.53	Joback Method
dvisc	0.0000579	Paxs	906.16	Joback Method
dvisc	0.0000481	Paxs	956.79	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=U360255&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360255&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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