

# Glutaric acid, cyclopentyl 2,4,6-trichlorophenyl ester

Inchi:	InChI=1S/C16H17Cl3O4/c17-10-8-12(18)16(13(19)9-10)23-15(21)7-3-6-14(20)22-11-4-1
InchiKey:	YFJYWQLHUQBRA-UHFFFAOYSA-N
Formula:	C16H17Cl3O4
SMILES:	O=C(CCCC(=O)OC1CCCC1)Oc1c(Cl)cc(Cl)cc1Cl
Mol. weight [g/mol]:	379.66

## Physical Properties

Property code	Value	Unit	Source
gf	-299.72	kJ/mol	Joback Method
hf	-647.79	kJ/mol	Joback Method
hfus	42.17	kJ/mol	Joback Method
hvap	87.20	kJ/mol	Joback Method
log10ws	-6.06		Crippen Method
logp	5.208		Crippen Method
mvol	253.280	ml/mol	McGowan Method
pc	1878.90	kPa	Joback Method
rinpol	2574.00		NIST Webbook
rinpol	2574.00		NIST Webbook
tb	887.25	K	Joback Method
tc	1120.89	K	Joback Method
tf	579.04	K	Joback Method
vc	0.960	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	709.08	J/molxK	887.25	Joback Method
cpg	721.04	J/molxK	926.19	Joback Method
cpg	731.75	J/molxK	965.13	Joback Method
cpg	741.22	J/molxK	1004.07	Joback Method
cpg	749.48	J/molxK	1043.01	Joback Method
cpg	756.55	J/molxK	1081.95	Joback Method
cpg	762.47	J/molxK	1120.89	Joback Method
dvisc	0.0005341	Paxs	579.04	Joback Method

dvisc	0.0003573	Paxs	630.41	Joback Method
dvisc	0.0002539	Paxs	681.78	Joback Method
dvisc	0.0001893	Paxs	733.14	Joback Method
dvisc	0.0001466	Paxs	784.51	Joback Method
dvisc	0.0001172	Paxs	835.88	Joback Method
dvisc	0.0000962	Paxs	887.25	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=U405401&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405401&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

Latest version available from:

<https://www.chemeo.com/cid/116-223-5/Glutaric-acid-cyclopentyl-2-4-6-trichlorophenyl-ester.pdf>

Generated by Cheméo on 2024-05-11 09:05:50.088957417 +0000 UTC m=+17707599.009534732.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.