

# Glutaric acid, 2,5-dimethylphenyl heptyl ester

<b>Inchi:</b>	InChI=1S/C20H30O4/c1-4-5-6-7-8-14-23-19(21)10-9-11-20(22)24-18-15-16(2)12-13-17(
<b>InchiKey:</b>	UJBXQBZNKWISOQ-UHFFFAOYSA-N
<b>Formula:</b>	C20H30O4
<b>SMILES:</b>	CCCCCCCOC(=O)CCCC(=O)Oc1cc(C)ccc1C
<b>Mol. weight [g/mol]:</b>	334.45

## Physical Properties

Property code	Value	Unit	Source
gf	-257.17	kJ/mol	Joback Method
hf	-732.14	kJ/mol	Joback Method
hfus	46.39	kJ/mol	Joback Method
hvap	82.03	kJ/mol	Joback Method
log10ws	-5.79		Crippen Method
logp	4.893		Crippen Method
mcvol	283.780	ml/mol	McGowan Method
pc	1327.14	kPa	Joback Method
rinqol	2485.00		NIST Webbook
tb	846.22	K	Joback Method
tc	1047.10	K	Joback Method
tf	510.94	K	Joback Method
vc	1.095	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	877.09	J/molxK	846.22	Joback Method
cpg	893.13	J/molxK	879.70	Joback Method
cpg	908.05	J/molxK	913.18	Joback Method
cpg	921.85	J/molxK	946.66	Joback Method
cpg	934.55	J/molxK	980.14	Joback Method
cpg	946.18	J/molxK	1013.62	Joback Method
cpg	956.74	J/molxK	1047.10	Joback Method
dvisc	0.0005107	Paxs	510.94	Joback Method
dvisc	0.0002940	Paxs	566.82	Joback Method

dvisc	0.0001869	Paxs	622.70	Joback Method
dvisc	0.0001280	Paxs	678.58	Joback Method
dvisc	0.0000929	Paxs	734.46	Joback Method
dvisc	0.0000705	Paxs	790.34	Joback Method
dvisc	0.0000555	Paxs	846.22	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=U358941&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358941&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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