

# Glutaric acid, hexyl 2-tert-butyl-6-methylphenyl ester

Inchi:	InChI=1S/C22H34O4/c1-6-7-8-9-16-25-19(23)14-11-15-20(24)26-21-17(2)12-10-13-18(2)
InchiKey:	OSIIFTUPVUWUSD-UHFFFAOYSA-N
Formula:	C22H34O4
SMILES:	CCCCCOC(=O)CCCC(=O)Oc1c(C)cccc1C(C)(C)C
Mol. weight [g/mol]:	362.50

## Physical Properties

Property code	Value	Unit	Source
gf	-237.49	kJ/mol	Joback Method
hf	-782.17	kJ/mol	Joback Method
hfus	44.16	kJ/mol	Joback Method
hvap	85.18	kJ/mol	Joback Method
log10ws	-6.20		Crippen Method
logp	5.492		Crippen Method
mcvol	311.960	ml/mol	McGowan Method
pc	1174.44	kPa	Joback Method
rinpola	2557.00		NIST Webbook
tb	888.75	K	Joback Method
tc	1096.04	K	Joback Method
tf	535.90	K	Joback Method
vc	1.196	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	997.23	J/molxK	888.75	Joback Method
cpg	1068.22	J/molxK	1061.49	Joback Method
cpg	1056.29	J/molxK	1026.94	Joback Method
cpg	1043.26	J/molxK	992.39	Joback Method
cpg	1029.11	J/molxK	957.85	Joback Method
cpg	1013.78	J/molxK	923.30	Joback Method
cpg	1079.10	J/molxK	1096.04	Joback Method
dvisc	0.0000327	Paxs	888.75	Joback Method
dvisc	0.0000425	Paxs	829.94	Joback Method

dvisc	0.0000575	Paxs	771.13	Joback Method
dvisc	0.0000817	Paxs	712.33	Joback Method
dvisc	0.0001238	Paxs	653.52	Joback Method
dvisc	0.0002037	Paxs	594.71	Joback Method
dvisc	0.0003738	Paxs	535.90	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U359137&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359137&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>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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