

# Glutaric acid, naphth-2-ylmethyl trans-4-tert-butylcyclohexyl ester

Inchi:	InChI=1S/C26H34O4/c1-26(2,3)22-13-15-23(16-14-22)30-25(28)10-6-9-24(27)29-18-19-
InchiKey:	UOHDIPOCWYIYOMP-UHFFFAOYSA-N
Formula:	C26H34O4
SMILES:	CC(C)(C)C1CCC(OC(=O)CCCC(=O)OCc2ccc3ccccc3c2)CC1
Mol. weight [g/mol]:	410.55

## Physical Properties

Property code	Value	Unit	Source
gf	-70.79	kJ/mol	Joback Method
hf	-628.21	kJ/mol	Joback Method
hfus	44.83	kJ/mol	Joback Method
hvap	95.18	kJ/mol	Joback Method
log10ws	-7.68		Crippen Method
logp	6.201		Crippen Method
mvol	338.000	ml/mol	McGowan Method
pc	1214.05	kPa	Joback Method
rinpol	3359.00		NIST Webbook
rinpol	3359.00		NIST Webbook
tb	1009.15	K	Joback Method
tc	1246.15	K	Joback Method
tf	604.30	K	Joback Method
vc	1.274	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1160.46	J/molxK	1009.15	Joback Method
cpg	1176.24	J/molxK	1048.65	Joback Method
cpg	1190.57	J/molxK	1088.15	Joback Method
cpg	1203.54	J/molxK	1127.65	Joback Method
cpg	1215.28	J/molxK	1167.15	Joback Method
cpg	1225.90	J/molxK	1206.65	Joback Method
cpg	1235.50	J/molxK	1246.15	Joback Method
dvisc	0.0004462	Paxs	604.30	Joback Method

dvisc	0.0002579	Paxs	671.77	Joback Method
dvisc	0.0001648	Paxs	739.25	Joback Method
dvisc	0.0001135	Paxs	806.72	Joback Method
dvisc	0.0000828	Paxs	874.20	Joback Method
dvisc	0.0000632	Paxs	941.67	Joback Method
dvisc	0.0000500	Paxs	1009.15	Joback Method

## Sources

<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=U393411&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393411&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## 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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