

# Glutaric acid, naphth-2-ylmethyl 2,3,4-trifluorophenyl ester

<b>Inchi:</b>	InChI=1S/C22H17F3O4/c23-17-10-11-18(22(25)21(17)24)29-20(27)7-3-6-19(26)28-13-1
<b>InchiKey:</b>	SYLLXGPNWWROY-UHFFFAOYSA-N
<b>Formula:</b>	C22H17F3O4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1ccc(F)c(F)c1F)OCc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	402.36

## Physical Properties

Property code	Value	Unit	Source
gf	-624.96	kJ/mol	Joback Method
hf	-957.09	kJ/mol	Joback Method
hfus	51.09	kJ/mol	Joback Method
hvap	89.27	kJ/mol	Joback Method
log10ws	-7.23		Crippen Method
logp	5.076		Crippen Method
mcvol	274.050	ml/mol	McGowan Method
pc	1567.23	kPa	Joback Method
rinqol	2954.00		NIST Webbook
tb	945.41	K	Joback Method
tc	1169.07	K	Joback Method
tf	619.41	K	Joback Method
vc	1.075	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	834.34	J/molxK	945.41	Joback Method
cpg	845.68	J/molxK	982.69	Joback Method
cpg	855.95	J/molxK	1019.96	Joback Method
cpg	865.20	J/molxK	1057.24	Joback Method
cpg	873.49	J/molxK	1094.51	Joback Method
cpg	880.86	J/molxK	1131.79	Joback Method
cpg	887.37	J/molxK	1169.07	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393650&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393650&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>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>rinpola:</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/72-466-5/Glutaric-acid-naphth-2-ylmethyl-2-3-4-trifluorophenyl-ester.pdf>

Generated by Cheméo on 2024-04-30 08:46:11.745986602 +0000 UTC m=+16756020.666563918.

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