

# Glutaric acid, 4-(trifluoromethoxy)benzyl tridecyl ester

Inchi:	InChI=1S/C26H39F3O5/c1-2-3-4-5-6-7-8-9-10-11-12-20-32-24(30)14-13-15-25(31)33-21
InchiKey:	KPGJGJSUCGDRDI-UHFFFAOYSA-N
Formula:	C26H39F3O5
SMILES:	CCCCCCCCCCCCOC(=O)CCCC(=O)OCc1ccc(OC(F)(F)F)cc1
Mol. weight [g/mol]:	488.58

## Physical Properties

Property code	Value	Unit	Source
gf	-883.61	kJ/mol	Joback Method
hf	-1573.81	kJ/mol	Joback Method
hfus	65.34	kJ/mol	Joback Method
hvap	93.38	kJ/mol	Joback Method
log10ws	-8.89		Crippen Method
logp	7.653		Crippen Method
mcvol	379.500	ml/mol	McGowan Method
pc	845.54	kPa	Joback Method
rinpol	2975.00		NIST Webbook
rinpol	2975.00		NIST Webbook
tb	995.52	K	Joback Method
tc	1224.52	K	Joback Method
tf	592.46	K	Joback Method
vc	1.492	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1293.29	J/molxK	995.52	Joback Method
cpg	1310.02	J/molxK	1033.69	Joback Method
cpg	1325.09	J/molxK	1071.85	Joback Method
cpg	1338.57	J/molxK	1110.02	Joback Method
cpg	1350.53	J/molxK	1148.19	Joback Method
cpg	1361.03	J/molxK	1186.35	Joback Method
cpg	1370.15	J/molxK	1224.52	Joback Method

# Sources

<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=U377344&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377344&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>hvp:</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>rinp:</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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