

# Glutaric acid, monoamide, N-(3,5-di(trifluoromethyl)benzyl)-, octyl ester

**Inchi:** InChI=1S/C22H29F6NO3/c1-2-3-4-5-6-7-11-32-20(31)10-8-9-19(30)29-15-16-12-17(21)(22)18-13-14  
**InchiKey:** VTWSZMCDPRDEOK-UHFFFAOYSA-N  
**Formula:** C22H29F6NO3  
**SMILES:** CCCCCCOC(=O)CCCC(=O)NCc1cc(C(F)(F)F)cc(C(F)(F)F)c1  
**Mol. weight [g/mol]:** 469.46

## Physical Properties

Property code	Value	Unit	Source
gf	-1209.12	kJ/mol	Joback Method
hf	-1781.89	kJ/mol	Joback Method
hfus	59.14	kJ/mol	Joback Method
hvap	83.01	kJ/mol	Joback Method
log10ws	-7.83		Crippen Method
logp	6.414		Crippen Method
mcvol	326.690	ml/mol	McGowan Method
pc	1014.89	kPa	Joback Method
rinpol	2494.00		NIST Webbook
rinpol	2494.00		NIST Webbook
tb	908.89	K	Joback Method
tc	1112.85	K	Joback Method
tf	572.29	K	Joback Method
vc	1.310	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1070.90	J/molxK	908.89	Joback Method
cpg	1085.78	J/molxK	942.88	Joback Method
cpg	1099.64	J/molxK	976.88	Joback Method
cpg	1112.54	J/molxK	1010.87	Joback Method
cpg	1124.57	J/molxK	1044.87	Joback Method
cpg	1135.81	J/molxK	1078.86	Joback Method
cpg	1146.34	J/molxK	1112.85	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360770&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360770&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>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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