

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

Inchi:	InChI=1S/C21H27F6NO3/c1-2-3-4-5-6-10-31-19(30)9-7-8-18(29)28-14-15-11-16(20(22,23)24)7
InchiKey:	TVXDZLVUAQGOES-UHFFFAOYSA-N
Formula:	C21H27F6NO3
SMILES:	CCCCCCCOC(=O)CCCC(=O)NCc1cc(C(F)(F)F)cc(C(F)(F)F)c1
Mol. weight [g/mol]:	455.43

## Physical Properties

Property code	Value	Unit	Source
gf	-1217.54	kJ/mol	Joback Method
hf	-1761.25	kJ/mol	Joback Method
hfus	56.55	kJ/mol	Joback Method
hvap	80.78	kJ/mol	Joback Method
log10ws	-7.41		Crippen Method
logp	6.024		Crippen Method
mvol	312.600	ml/mol	McGowan Method
pc	1079.93	kPa	Joback Method
rinpol	2402.00		NIST Webbook
tb	886.01	K	Joback Method
tc	1084.85	K	Joback Method
tf	561.02	K	Joback Method
vc	1.254	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1011.42	J/molxK	886.01	Joback Method
cpg	1025.81	J/molxK	919.15	Joback Method
cpg	1039.21	J/molxK	952.29	Joback Method
cpg	1051.70	J/molxK	985.43	Joback Method
cpg	1063.34	J/molxK	1018.57	Joback Method
cpg	1074.22	J/molxK	1051.71	Joback Method
cpg	1084.39	J/molxK	1084.85	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360769&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360769&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>mccvol:</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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