

# Glutaric acid, 2-methylhex-3-yl 3-nitro-4-methoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C20H29NO7/c1-5-7-17(14(2)3)28-20(23)9-6-8-19(22)27-13-15-10-11-18(26-4)
<b>InchiKey:</b>	SBRDMBLPEXVPEJ-UHFFFAOYSA-N
<b>Formula:</b>	C20H29NO7
<b>SMILES:</b>	CCCC(OC(=O)CCCC(=O)OCc1ccc(OC)c([N+](=O)[O-])c1)C(C)C
<b>Mol. weight [g/mol]:</b>	395.45

## Physical Properties

Property code	Value	Unit	Source
gf	-331.50	kJ/mol	Joback Method
hf	-885.68	kJ/mol	Joback Method
hfus	51.90	kJ/mol	Joback Method
hvap	100.25	kJ/mol	Joback Method
log10ws	-5.74		Crippen Method
logp	4.185		Crippen Method
mcvol	307.070	ml/mol	McGowan Method
pc	1337.84	kPa	Joback Method
rinpola	2900.00		NIST Webbook
tb	1019.60	K	Joback Method
tc	1251.02	K	Joback Method
tf	646.78	K	Joback Method
vc	1.183	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1013.77	J/molxK	1019.60	Joback Method
cpg	1025.08	J/molxK	1058.17	Joback Method
cpg	1034.75	J/molxK	1096.74	Joback Method
cpg	1042.78	J/molxK	1135.31	Joback Method
cpg	1049.20	J/molxK	1173.88	Joback Method
cpg	1054.02	J/molxK	1212.45	Joback Method
cpg	1057.24	J/molxK	1251.02	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=U377043&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377043&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>hvac:</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>mccol:</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

Latest version available from:

<https://www.chemeo.com/cid/55-885-9/Glutaric-acid-2-methylhex-3-yl-3-nitro-4-methoxybenzyl-ester.pdf>

Generated by Cheméo on 2024-04-28 22:52:04.898545284 +0000 UTC m=+16633973.819122596.

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