

# Glutaric acid, monoamide, N-(4-methoxybenzyl)-, tridecyl ester

Inchi:	InChI=1S/C26H43NO4/c1-3-4-5-6-7-8-9-10-11-12-13-21-31-26(29)16-14-15-25(28)27-22
InchiKey:	NXYSHBSNBRKSSF-UHFFFAOYSA-N
Formula:	C26H43NO4
SMILES:	CCCCCCCCCCCCOC(=O)CCCC(=O)NCc1ccc(OC)cc1
Mol. weight [g/mol]:	433.62

## Physical Properties

Property code	Value	Unit	Source
gf	-107.63	kJ/mol	Joback Method
hf	-791.04	kJ/mol	Joback Method
hfus	67.42	kJ/mol	Joback Method
hvap	101.16	kJ/mol	Joback Method
log10ws	-7.83		Crippen Method
logp	6.336		Crippen Method
mcvol	378.300	ml/mol	McGowan Method
pc	922.18	kPa	Joback Method
rinpola	3542.00		NIST Webbook
tb	1028.69	K	Joback Method
tc	1263.06	K	Joback Method
tf	618.70	K	Joback Method
vc	1.466	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1304.52	J/mol×K	1028.69	Joback Method
cpg	1321.30	J/mol×K	1067.75	Joback Method
cpg	1336.37	J/mol×K	1106.81	Joback Method
cpg	1349.79	J/mol×K	1145.87	Joback Method
cpg	1361.63	J/mol×K	1184.94	Joback Method
cpg	1371.94	J/mol×K	1224.00	Joback Method
cpg	1380.80	J/mol×K	1263.06	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360200&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360200&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>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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