

# Glutaric acid, monoamide, N-dodecyl-, heptyl ester

Inchi:	InChI=1S/C24H47NO3/c1-3-5-7-9-10-11-12-13-14-16-21-25-23(26)19-18-20-24(27)28-22
InchiKey:	YTBFRAYUXJVHCS-UHFFFAOYSA-N
Formula:	C24H47NO3
SMILES:	CCCCCCCCCCCCNC(=O)CCCC(=O)OCCCCCCC
Mol. weight [g/mol]:	397.63

## Physical Properties

Property code	Value	Unit	Source
gf	-122.25	kJ/mol	Joback Method
hf	-842.60	kJ/mol	Joback Method
hfus	67.40	kJ/mol	Joback Method
hvap	91.36	kJ/mol	Joback Method
log10ws	-7.70		Crippen Method
logp	6.707		Crippen Method
mcvol	368.010	ml/mol	McGowan Method
pc	865.05	kPa	Joback Method
rinpol	3390.00		NIST Webbook
rinpol	3390.00		NIST Webbook
tb	928.85	K	Joback Method
tc	1140.13	K	Joback Method
tf	534.99	K	Joback Method
vc	1.444	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1251.61	J/molxK	928.85	Joback Method
cpg	1271.79	J/molxK	964.06	Joback Method
cpg	1290.57	J/molxK	999.28	Joback Method
cpg	1307.99	J/molxK	1034.49	Joback Method
cpg	1324.11	J/molxK	1069.70	Joback Method
cpg	1338.99	J/molxK	1104.91	Joback Method
cpg	1352.67	J/molxK	1140.13	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360871&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360871&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

Latest version available from:

<https://www.chemeo.com/cid/65-979-4/Glutaric-acid-monoamide-N-dodecyl-heptyl-ester.pdf>

Generated by Cheméo on 2024-04-19 16:21:34.788244837 +0000 UTC m=+15832943.708822152.

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