

Glutaric acid, 8-chlorooctyl dodecyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C25H47ClO4/c1-2-3-4-5-6-7-8-10-13-16-22-29-24(27)19-18-20-25(28)30-23-1

YSVQPBMKIBNWBL-UHFFFAOYSA-N

C25H47ClO4

CCCCCCCCCCCCOC(=O)CCCC(=O)OCCCCCCCCCI

447.09

Physical Properties

Property code	Value	Unit	Source
gf	-320.15	kJ/mol	Joback Method
hf	-1064.67	kJ/mol	Joback Method
hfus	70.28	kJ/mol	Joback Method
hvap	93.94	kJ/mol	Joback Method
log10ws	-8.17		Crippen Method
logp	7.743		Crippen Method
mcvol	390.230	ml/mol	McGowan Method
pc	787.71	kPa	Joback Method
rinpol	3248.00		NIST Webbook
rinpol	3248.00		NIST Webbook
tb	961.41	K	Joback Method
tc	1183.64	K	Joback Method
tf	545.75	K	Joback Method
vc	1.532	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1311.77	J/mol×K	961.41	Joback Method
cpg	1331.62	J/mol×K	998.45	Joback Method
cpg	1349.83	J/mol×K	1035.49	Joback Method
cpg	1366.46	J/mol×K	1072.52	Joback Method
cpg	1381.56	J/mol×K	1109.56	Joback Method
cpg	1395.18	J/mol×K	1146.60	Joback Method
cpg	1407.37	J/mol×K	1183.64	Joback Method
dvisc	0.0003575	Pa×s	545.75	Joback Method

dvisc	0.0001710	Pa×s	615.03	Joback Method
dvisc	0.0000950	Pa×s	684.30	Joback Method
dvisc	0.0000588	Pa×s	753.58	Joback Method
dvisc	0.0000394	Pa×s	822.86	Joback Method
dvisc	0.0000281	Pa×s	892.13	Joback Method
dvisc	0.0000211	Pa×s	961.41	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U359593&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log_{10ws}:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
p_c:	Critical Pressure
rin_{pol}:	Non-polar retention indices
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/37-934-4/Glutaric-acid-8-chlorooctyl-dodecyl-ester.pdf>

Generated by Cheméo on 2025-12-23 01:47:09.261945885 +0000 UTC m=+6202626.791986551.

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