

Glutaric acid, hexyl undecyl ester

Inchi:	InChI=1S/C22H42O4/c1-3-5-7-9-10-11-12-13-15-20-26-22(24)18-16-17-21(23)25-19-14-
InchiKey:	PLBFXBHEAUUCNM-UHFFFAOYSA-N
Formula:	C22H42O4
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)OCCCCC
Mol. weight [g/mol]:	370.57

Physical Properties

Property code	Value	Unit	Source
gf	-333.48	kJ/mol	Joback Method
hf	-987.01	kJ/mol	Joback Method
hfus	58.31	kJ/mol	Joback Method
hvap	82.88	kJ/mol	Joback Method
log10ws	-6.76		Crippen Method
logp	6.354		Crippen Method
mcvol	335.720	ml/mol	McGowan Method
pc	953.78	kPa	Joback Method
rinpola	2617.00		NIST Webbook
tb	855.34	K	Joback Method
tc	1047.20	K	Joback Method
tf	482.02	K	Joback Method
vc	1.315	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1092.06	J/molxK	855.34	Joback Method
cpg	1111.23	J/molxK	887.32	Joback Method
cpg	1129.19	J/molxK	919.29	Joback Method
cpg	1145.99	J/molxK	951.27	Joback Method
cpg	1161.63	J/molxK	983.25	Joback Method
cpg	1176.14	J/molxK	1015.23	Joback Method
cpg	1189.55	J/molxK	1047.20	Joback Method
dvisc	0.0006693	Paxs	482.02	Joback Method
dvisc	0.0003195	Paxs	544.24	Joback Method

dvisc	0.0001775	Paxs	606.46	Joback Method
dvisc	0.0001100	Paxs	668.68	Joback Method
dvisc	0.0000739	Paxs	730.90	Joback Method
dvisc	0.0000529	Paxs	793.12	Joback Method
dvisc	0.0000397	Paxs	855.34	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358485&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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