

Glutaric acid, 2,4-dichloronaphthyl nonyl ester

Inchi:	InChI=1S/C24H30Cl2O4/c1-2-3-4-5-6-7-10-16-29-22(27)14-11-15-23(28)30-24-19-13-9-8
InchiKey:	RABJNAPVUMJLLS-UHFFFAOYSA-N
Formula:	C24H30Cl2O4
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)Oc1c(Cl)cc(Cl)c2cccc12
Mol. weight [g/mol]:	453.40

Physical Properties

Property code	Value	Unit	Source
gf	-150.33	kJ/mol	Joback Method
hf	-666.58	kJ/mol	Joback Method
hfus	61.78	kJ/mol	Joback Method
hvap	102.00	kJ/mol	Joback Method
log10ws	-8.85		Crippen Method
logp	7.516		Crippen Method
mvol	345.160	ml/mol	McGowan Method
pc	1131.38	kPa	Joback Method
rinpol	3436.00		NIST Webbook
rinpol	3436.00		NIST Webbook
tb	1036.56	K	Joback Method
tc	1269.51	K	Joback Method
tf	661.08	K	Joback Method
vc	1.339	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1084.11	J/molxK	1036.56	Joback Method
cpg	1138.18	J/molxK	1230.69	Joback Method
cpg	1129.48	J/molxK	1191.86	Joback Method
cpg	1119.79	J/molxK	1153.04	Joback Method
cpg	1109.04	J/molxK	1114.21	Joback Method
cpg	1097.18	J/molxK	1075.39	Joback Method
cpg	1145.97	J/molxK	1269.51	Joback Method
dvisc	0.0000489	Paxs	1036.56	Joback Method

dvisc	0.0000598	Paxs	973.98	Joback Method
dvisc	0.0000750	Paxs	911.40	Joback Method
dvisc	0.0000975	Paxs	848.82	Joback Method
dvisc	0.0001320	Paxs	786.24	Joback Method
dvisc	0.0001883	Paxs	723.66	Joback Method
dvisc	0.0002873	Paxs	661.08	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358929&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

Latest version available from:

<https://www.chemeo.com/cid/119-227-8/Glutaric-acid-2-4-dichloronaphthyl-nonyl-ester.pdf>

Generated by Cheméo on 2024-04-28 07:07:49.411577774 +0000 UTC m=+16577318.332155090.

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