

Glutaric acid, 3-chlorophenyl 3-phenoxybenzyl ester

Inchi:	InChI=1S/C24H21ClO5/c25-19-8-5-12-22(16-19)30-24(27)14-6-13-23(26)28-17-18-7-4-1
InchiKey:	GEYKCJMNEIURQX-UHFFFAOYSA-N
Formula:	C24H21ClO5
SMILES:	O=C(CCCC(=O)Oc1cccc(Cl)c1)OCc1cccc(Oc2ccccc2)c1
Mol. weight [g/mol]:	424.87

Physical Properties

Property code	Value	Unit	Source
gf	-115.60	kJ/mol	Joback Method
hf	-489.60	kJ/mol	Joback Method
hfus	50.22	kJ/mol	Joback Method
hvap	102.28	kJ/mol	Joback Method
log10ws	-6.75		Crippen Method
logp	5.951		Crippen Method
mvol	310.730	ml/mol	McGowan Method
pc	1573.45	kPa	Joback Method
rinpol	3363.00		NIST Webbook
rinpol	3363.00		NIST Webbook
tb	1050.95	K	Joback Method
tc	1300.10	K	Joback Method
tf	661.01	K	Joback Method
vc	1.171	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	951.11	J/molxK	1050.95	Joback Method
cpg	960.19	J/molxK	1092.48	Joback Method
cpg	967.64	J/molxK	1134.00	Joback Method
cpg	973.51	J/molxK	1175.53	Joback Method
cpg	977.86	J/molxK	1217.05	Joback Method
cpg	980.74	J/molxK	1258.58	Joback Method
cpg	982.21	J/molxK	1300.10	Joback Method
dvisc	0.0001599	Paxs	661.01	Joback Method

dvisc	0.0000982	Paxs	726.00	Joback Method
dvisc	0.0000654	Paxs	790.99	Joback Method
dvisc	0.0000463	Paxs	855.98	Joback Method
dvisc	0.0000344	Paxs	920.97	Joback Method
dvisc	0.0000266	Paxs	985.96	Joback Method
dvisc	0.0000212	Paxs	1050.95	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U392132&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ 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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