

1,2-Cyclohexanedicarboxylic acid, 4-methoxyphenyl nonyl ester

Inchi:	InChI=1S/C24H36O5/c1-3-4-5-6-7-8-11-18-28-23(25)21-12-9-10-13-22(21)24(26)29-20-
InchiKey:	DPZOHMJPAVZHIJ-UHFFFAOYSA-N
Formula:	C24H36O5
SMILES:	CCCCCCCCCOC(=O)C1CCCCC1C(=O)Oc1ccc(OC)cc1
Mol. weight [g/mol]:	404.54

Physical Properties

Property code	Value	Unit	Source
gf	-302.12	kJ/mol	Joback Method
hf	-901.47	kJ/mol	Joback Method
hfus	51.24	kJ/mol	Joback Method
hvap	92.80	kJ/mol	Joback Method
log10ws	-6.46		Crippen Method
logp	5.701		Crippen Method
mvol	335.150	ml/mol	McGowan Method
pc	1142.12	kPa	Joback Method
rinpol	3013.00		NIST Webbook
rinpol	3013.00		NIST Webbook
tb	970.06	K	Joback Method
tc	1191.40	K	Joback Method
tf	568.87	K	Joback Method
vc	1.270	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1148.19	J/molxK	970.06	Joback Method
cpg	1209.38	J/molxK	1154.51	Joback Method
cpg	1200.74	J/molxK	1117.62	Joback Method
cpg	1190.32	J/molxK	1080.73	Joback Method
cpg	1178.11	J/molxK	1043.84	Joback Method
cpg	1164.07	J/molxK	1006.95	Joback Method
cpg	1216.26	J/molxK	1191.40	Joback Method
dvisc	0.0000313	Paxs	970.06	Joback Method

dvisc	0.0000402	Paxs	903.19	Joback Method
dvisc	0.0000538	Paxs	836.33	Joback Method
dvisc	0.0000757	Paxs	769.46	Joback Method
dvisc	0.0001137	Paxs	702.60	Joback Method
dvisc	0.0001860	Paxs	635.74	Joback Method
dvisc	0.0003416	Paxs	568.87	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=U339674&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
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
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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