

Pimelic acid, di(2-(2-methoxyethyl)hexyl) ester

Inchi:

InChI=1S/C25H48O6/c1-5-7-12-22(16-18-28-3)20-30-24(26)14-10-9-11-15-25(27)31-21-

InchiKey:

WVBXPEDPLDLCJD-UHFFFAOYSA-N

Formula:

C25H48O6

SMILES:

CCCCC(CCOC)COC(=O)CCCCC(=O)OCC(CCCC)CCOC

Mol. weight [g/mol]:

444.64

Physical Properties

Property code	Value	Unit	Source
gf	-523.10	kJ/mol	Joback Method
hf	-1323.93	kJ/mol	Joback Method
hfus	61.41	kJ/mol	Joback Method
hvap	93.60	kJ/mol	Joback Method
log10ws	-5.70		Crippen Method
logp	5.709		Crippen Method
mcvol	389.730	ml/mol	McGowan Method
pc	796.18	kPa	Joback Method
rinpol	2861.00		NIST Webbook
rinpol	2861.00		NIST Webbook
tb	967.94	K	Joback Method
tc	1192.43	K	Joback Method
tf	530.29	K	Joback Method
vc	1.508	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1345.33	J/mol×K	967.94	Joback Method
cpg	1423.22	J/mol×K	1155.02	Joback Method
cpg	1411.59	J/mol×K	1117.60	Joback Method
cpg	1398.01	J/mol×K	1080.19	Joback Method
cpg	1382.45	J/mol×K	1042.77	Joback Method
cpg	1364.89	J/mol×K	1005.36	Joback Method
cpg	1432.90	J/mol×K	1192.43	Joback Method
dvisc	0.0000113	Pa×s	967.94	Joback Method

dvisc	0.0000155	Pa×s	895.00	Joback Method
dvisc	0.0000224	Pa×s	822.06	Joback Method
dvisc	0.0000348	Pa×s	749.12	Joback Method
dvisc	0.0000594	Pa×s	676.17	Joback Method
dvisc	0.0001156	Pa×s	603.23	Joback Method
dvisc	0.0002700	Pa×s	530.29	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406753&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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/95-309-4/Pimelic-acid-di-2-2-methoxyethyl-hexyl-ester.pdf>

Generated by Cheméo on 2025-12-05 13:45:39.380560113 +0000 UTC m=+4690536.910600767.

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