

Levo-menthoxyacetic acid

Other names: (-)-Menthoxyacetic acid; (-)-Menthyloxyacetic acid; Acetic acid, [[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]-, [1R-(1«alpha»,2«beta»,5«alpha»)]-; L-Menthoxyacetic acid; L-p-menth-3-yloxyacetic acid.

InChI: InChI=1S/C12H22O3/c1-8(2)10-5-4-9(3)6-11(10)15-7-12(13)14/h8-11H,4-7H2,1-3H3,(H,13,14)

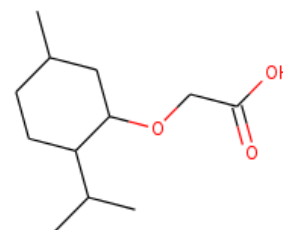
InChI Key: CILPHQCEVYJUDN-UHFFFAOYSA-N

Formula: C12H22O3

SMILES: CC(C)C1CCC(C)CC1OCC(=O)O

Molecular Weight: 214.30

CAS: 40248-63-3



Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-313.99	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-679.68	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	24.16	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	67.56	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	2.55		Crippen Method
P_c	2300.32	kPa	Joback Method
T_{boil}	436.70	K	NIST Webbook
T_c	843.77	K	Joback Method
T_{fus}	341.88	K	Joback Method
V_c	0.68	m ³ /kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	526.75	J/mol×K	652.2	Joback Method
η	0.00	Paxs	652.2	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

NIST Webbook: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C12H22O3/c1-8\(2\)10-5-4-9\(3\)6-11\(10\)15-7-12\(13\)14/h8-11H,4-7H2,1-3H3,\(H,13,14\)](http://webbook.nist.gov/cgi/inchi/InChI=1S/C12H22O3/c1-8(2)10-5-4-9(3)6-11(10)15-7-12(13)14/h8-11H,4-7H2,1-3H3,(H,13,14))

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

$C_{p,gas}$: Ideal gas heat capacity (J/molxK).

η : Dynamic viscosity (Pa \times s).

$\Delta_f G^\circ$: Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$: Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$: Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$: Enthalpy of vaporization at standard conditions (kJ/mol).

$logP_{oct/wat}$: Octanol/Water partition coefficient .

P_c : Critical Pressure (kPa).

T_{boil} : Normal Boiling Point Temperature (K).

T_c : Critical Temperature (K).

T_{fus} : Normal melting (fusion) point (K).

V_c : Critical Volume (m³/kg-mol).

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