

Ethers do not occur in essential oils as simply ethers. Many ethers in essential oils are phenolic, derived from the hydroxyl group of the phenol. This occurs when hydrogen from the hydroxyl group breaks off and is replaced with a short hydrocarbon chain. Because of the stability of the benzene ring and the methyl group (-CH3), they are considered effective in reducing pain and muscle spasms. Phenolic ethers are notarized as being strong in odor and strong in action.

THERAPEUTIC PROPERTIES			
ANALGESIC	ANTI-INFECTIOUS	ANTISPASMODIC	
CARMINATIVE	HEPTOTOXIC	GENOTOXIC	
NEUROTOXIC	ABORTIFACIENT	PSYCHOTROPIC	
ESTROGEN-LIKE			

## COMMON ETHERS CHEMICALS MOLECULAR STRUCTURES

methyl chavicol (estragole)	eugenol	p-cresyl methyl ether
trans-anethole (same as (E)-anethole)	safrole	myristicin
elemicin	apiole	

## ESSENTIAL OILS CONTENT OF ETHERS ETHERS % CONTENTS

<b>Essential Oils</b>	Percentage
Anise	88%
Tarragon	75%
Fennel	66%
Basil	65%
Ylang Ylang	12%
Parsley	11%
Dill	11%
White Camphor	10%
German Chamomile	9%
Davana	6%
Marjoram	6%