

Organic Domino Tile List

Number	Structure	Function		Number	Structure	Function
1	Sulfoxide	Weak Acid		26	Alcohol	Reduced
2	Acid Halide	Strong Acid		27	Monophosphate	Reduced
3	Nitro	Weak Base		28	Halide	Saturated
4	Alkene	High BP		29	Alcohol	Smell
5	Acid Chloride	Low BP		30	Sulfide	C13: 110-150
6	Amine	Conjugated		31	Ether	C13: 160-220
7	Carboxylic Acid	Inductive EDG		32	Acyl Phosphate	IR: 3400-3700 S, Broad
8	Carbonyl	Inductive EWG		33	Ether	IR: 1400-2000 W/M, Series
9	Imine	Inductive EWG		34	Phenol	IR: 1680-1750 S, Sharp
10	Ester	H ₂ O Soluble		35	Arene	MS: 35/37, 79/81, 127
11	Carbonyl	H ₂ O Soluble		36	Alkyl halide	NMR: 9.5-10.0
12	Alkane	H-H Bond		37	Ketone	NMR: 0.9-1.2
13	Aldehyde	H-H Bond		38	Thiol	NMR: 6.5-8.0
14	Carboxylic Acid	Organic Soluble		39	Phenol	NMR: 11.0-12.0
15	Alcohol	Organic Soluble		40	Alcohol	UV: ~200
16	Phenol	Organic Soluble		41	Acid Anhydride	Stable
17	Amine	Oxidized		42	Carboxylic Acid	Unsaturated
18	Halide	Oxidized		43	Sulfide	Non-Polar
19	Cyclohexane	Oxidized		44	Thioester	Non-Polar
20	Amide	Low pKa		45	Arene	Van-der-Waals Forces
21	Nitrile	High pKa		46	Cyclohexane	Dipole-Dipole
22	Alkane	Polar		47	Alkene	Dipole-Dipole
23	Arene	Polar		48	Arene	Dipole-Dipole
24	Azide	Polar		49	Alkane	Dipole-Dipole
25	Alkyne	Polar		50	Aldehyde	Stacking Forces